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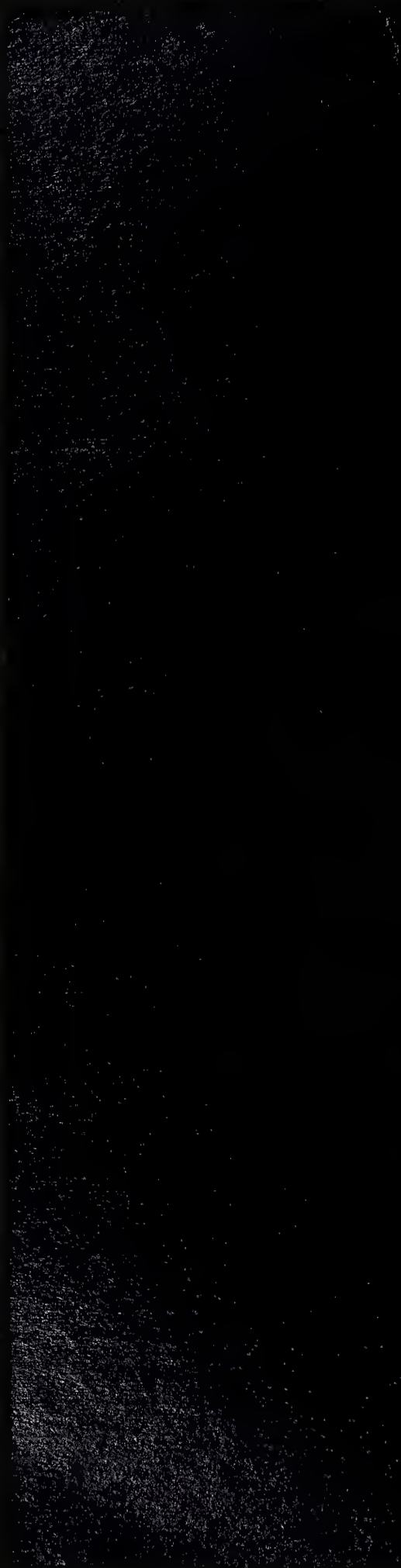

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WATER SUPPLY OUTLOOK FOR IDAHO

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U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
JAN. 1, 1978

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SOME OF THE DATA IN THIS REPORT HAVE BEEN RECEIVED THROUGH THE SOIL CONSERVATION SERVICE'S NEW SNOTEL SYSTEM WHICH TRANSMITS INFORMATION VIA THE SPACE AGED METEOR BURST METHOD FROM DATA SITES TO MASTER STATIONS LIKE THESE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P.O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.

USDA-SCS-PORTLAND OR 1977

WATER SUPPLY OUTLOOK for IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R. M. DAVIS

ADMINISTRATOR

SOIL CONSERVATION SERVICE

WASHINGTON, D.C.

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST

SOIL CONSERVATION SERVICE

BOISE, IDAHO

In Cooperation with

C. STEPHEN ALLRED

DIRECTOR

IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

JACK A. WILSON, Snow Survey Supervisor

GERALD A. BEARD, Asst. Snow Survey Supervisor

KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE

SNOW SURVEY SECTION

ROOM 345, 304 N. 8th ST.

BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL SUMMARY FOR JANUARY 1, 1978

January 1 snow surveys indicate that the snowpack is generally normal to well above normal throughout the state. The exception is a small area in Northeastern Idaho in the Medicine Lodge Creek and Mud Lake drainages where the snowpack is less than 80 percent of average. The Owyhee, Bruneau and Salmon Falls Creek watersheds south of the Snake River are slightly above normal, ranging from 104 to 108 percent of average. All other drainages in the state are more than 20 percent above average, ranging from 120 percent of normal on the Big Wood and Henry's Fork watersheds to a high of 169 percent of average on the Montpelier Creek drainage in Southeastern Idaho.

In general temperatures were near to below normal throughout Idaho during October, near to below normal in Northern Idaho and above normal for the remainder of the state during November, and above normal throughout December.

Valley precipitation throughout Idaho was below normal in October, increasing through November with exceptionally high precipitation during December. As of January 1, accumulative valley precipitation for the October through December period was normal to well above average throughout Idaho.

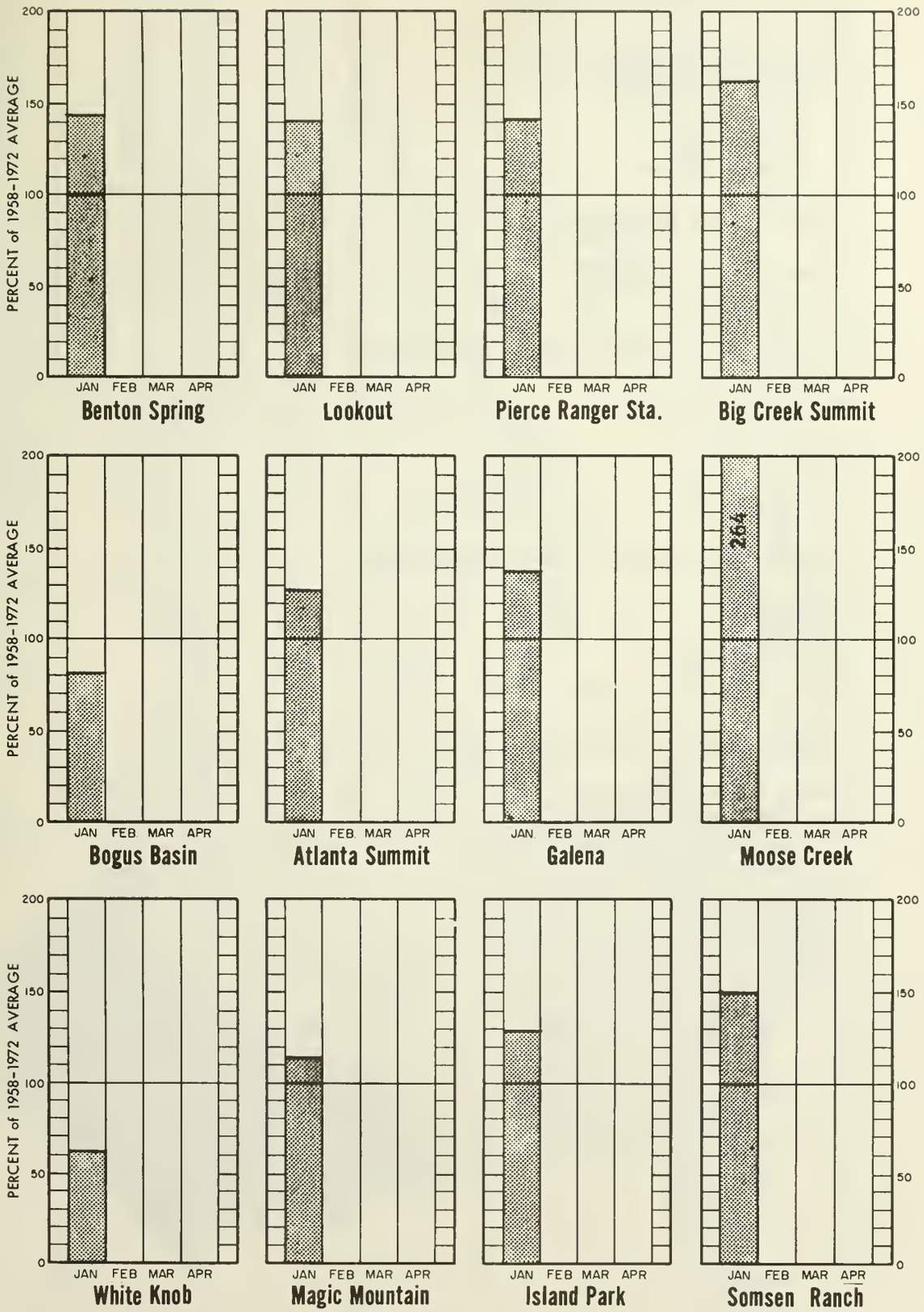
Streamflow in the spring of 1977 was at an all time low, however timely summer rains alleviated the situation and by October 1, streamflow

though generally deficient was no longer in the lowest of record category. The heavy precipitation and relatively warm temperatures during December resulted in dramatically increased runoff and many streams such as the Coeur d'Alene, Clearwater, Salmon, Weiser, Boise and Upper Snake were flowing well above normal, some almost to flood stage.

Carry-over storage as of October 1, 1977 was at an all time low. The increase in runoff in the fall and particularly during December has greatly improved the situation. If the present trend continues in a normal pattern, most reservoirs should fill and natural flows hold up well into the summer of 1978.

SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1958-1972 15 Yr. Average

JANUARY 1, 1978



COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : LAST YEAR	1958–72 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Kootenai River	4	260	128
Pend Oreille River	33	370	152
Clark Fork River	15	417	153
Flathead River	9	277	131
Priest River	4	424	130
Spokane River	2-4	382	127
LOWER SNAKE RIVER BASIN			
Clearwater river	3-10	370	130
Salmon River	10-12	1192	142
MIDDLE SNAKE RIVER BASIN - Northside			
Little Wood River	2	--	133
Big Wood River	4-6	2552	120
Boise River	8-9	1430	123
Payette River	8-11	1190	124
Weiser River	1	1475	120
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River	1	--	143
Salmon Falls Creek	7	--	106
Bruneau River	4	--	108
Owyhee River - Jordan Creek	2	--	104
UPPER SNAKE RIVER BASIN			
Snake Basin - Wyoming	10	780	159
Henrys Fork River	6-7	637	120
Teton River	2-9	576	125
Blackfoot River	1-2	319	150
GREAT BASIN			
Montpelier Creek	4	299	169

USDA SCS PORTLAND OREGON 1974 M7-L-22023Q

SNOW WATER DEPTHS

As percent of 1958-72 15 year average

JANUARY 1, 1978

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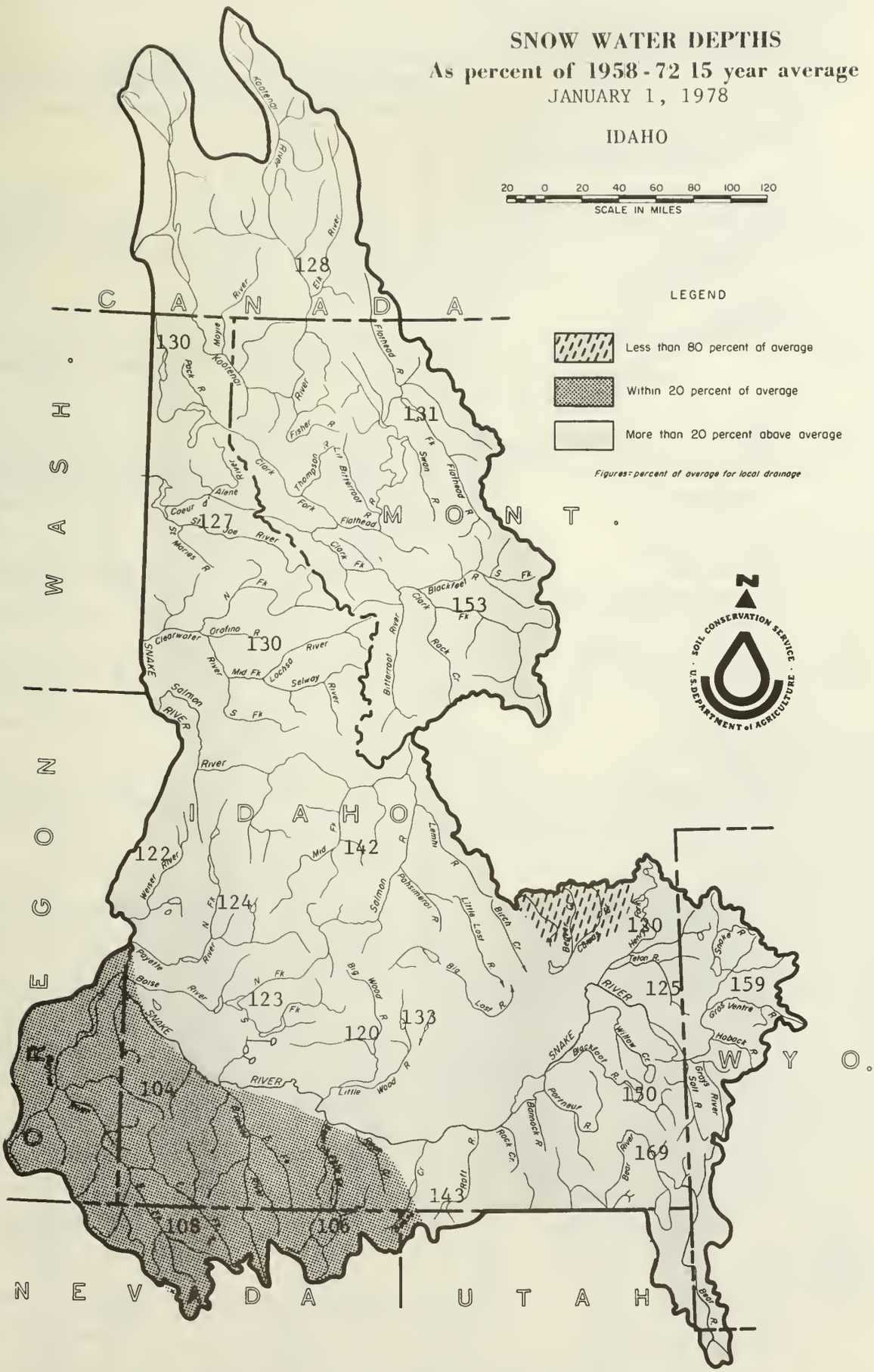

RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1958-72 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	1974.0	2650.0	2766.0
Flathead	1791.0	1205.0	1254.0	1423.0
Pend Oreille	1155.1	553.4	150.7	431.2
Noxon	334.6	316.5	322.4	325.5
Spokane				
Coeur d'Alene	225.1	182.0	56.2	138.2
SNAKE BASIN				
Snake				
Jackson Lake	847.0	284.2	575.8	531.5
Palisades	1200.0	209.6	1072.5	751.3
American Falls	1125.0	695.3	766.1	448.4
Island Park	127.0	71.2	100.9	82.0
Grassy Lake	15.2	8.0	10.4	9.6
Brownlee	980.2	821.6	834.0	792.7*
Goose-Trapper Creeks				
Oakley	74.4	27.3	42.0	12.6
Salmon Falls Creek				
Salmon Falls	182.6	30.1	44.5	25.5
Big Lost				
Mackay	44.2	20.2	16.3	27.7
Big Wood				
Magic	191.5	13.9	60.0	88.5
Little Wood				
Little Wood	30.0	6.5	6.7	11.6
Fish Creek				
Carey Valley	14.4	1.0	4.3	--
Boise				
Anderson Ranch	423.2	72.5	343.9	278.0
Arrowrock	286.6	150.6	146.0	204.9
Lucky Peak	278.2	23.3	57.6	60.3
Lake Lowell (Deer Flat)	169.0	36.5	122.6	106.3
Owyhee				
Owyhee	715.0	221.8	469.7	406.8
Payette				
Cascade	653.2	248.9	402.1	354.0
Deadwood	161.9	43.5	78.9	68.0
Weiser				
Mann Creek	11.1	1.7	2.7	--
Clearwater				
Dworshak	2016.0	1271.7	1200.8	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	764.0	1059.0	944.4

*Period of Record.

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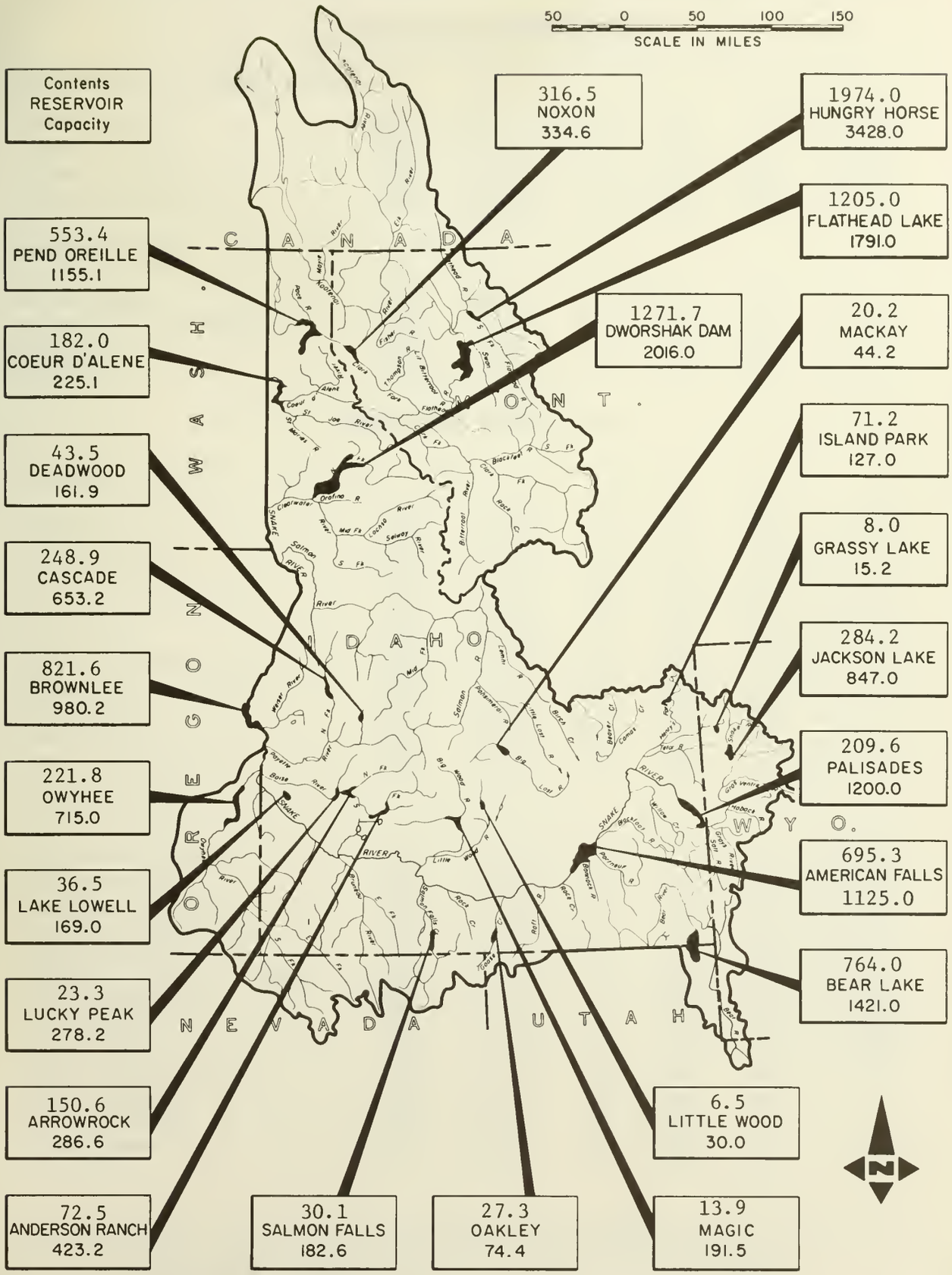
RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

JANUARY 1, 1978



SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average 1/
UPPER COLUMBIA RIVER BASIN						
PEND OREILLE - PRIEST RIVER						
Benton Meadow	2370	1/3	23	5.4	1.5	3.5
Benton Spring	4900	1/3	40	12.1	2.4	8.4
Schweitzer Bowl	4500	12/29	57	18.7	5.0	14.3*
Schweitzer Ridge	6100	12/29	78	26.2	5.8	21.6*
SPOKANE RIVER						
Above Burke	4100	12/28	40	10.5	4.1	--
Fourth of July Summit	3200	12/28	14	2.9	0.0	4.1*
Lookout	5120	12/28	62	22.0	4.8	15.5
Sherwin	3200	12/30	28	5.8	1.9	--
LOWER SNAKE RIVER BASIN						
CLEARWATER RIVER						
Cayuse Airstrip	3700	12/28	24	4.9	1.6	5.5*
Crater Meadows	6100	12/28	73	21.7	7.1	--
Crooked Fork	3600	12/29	31	8.4	2.9	--
Fish Lake Airstrip	5000	12/28	68	20.6	6.3	17.6*
Hemlock Butte	5500	12/28	78	21.9	6.5	--
Lolo Pass	5240	12/29	62	19.8	4.4	11.7*
Lower Snowhaven	5300	12/30	42	9.6	2.0	--
Pierce Ranger Station	3170	1/5	28	6.4	2.4	4.5
Savage Pass	6170	12/29	59	18.2	3.9	--
Shanghai Summit	4600	12/28	46	12.0	3.1	--
Upper Snowhaven	5600	12/30	33	9.1	1.7	--
SALMON RIVER						
Big Creek Summit	6600	1/1	76	22.4	1.8	13.8*
#Boulder Creek	5500	12/30	46	11.8	0.8	10.0*
Brundage Mountain	7560	12/28	85	26.5	2.2	18.6*
#Deadwood Summit	7000	12/27	86	27.1	1.7	24.4*
#Galena Summit	8795	12/27	53	13.9	1.0	10.4
#Gibbons Pass Mont.	7100	12/29	57	17.0	3.8	9.5
Mill Creek Summit	8870	12/29	44	12.9	1.0	10.5*
Moose Creek	6200	12/31	48	14.8	--	5.6*
Morgan Creek	7580	12/30	37	9.3	0.6	5.9*
#Rock Flat Summit	5200	12/28	36	8.7	1.0	6.8
#Secesh Summit	6520	12/31	67	20.7	1.7	--
#Squaw Meadow	5800	12/31	67	20.9	1.3	--
Vienna Mine	8960	12/27	78	23.4	1.1	--

*(b) 1958-72, 15 year period. #Not located directly on this druinage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

USDA SCS PORTLAND OREGON 1974 M7-0-2203P

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
MIDDLE SNAKE RIVER BASIN - NORTHSIDE						
BIG LOST RIVER						
Bear Canyon	7920	12/27	33	7.8	--	--
Copper Basin	7650	12/27	14	3.2	--	--
Fishpole Lake	9350	12/27	35	10.2	--	--
Lost-Wood Divide	7900	12/27	45	12.2	--	--
Stickney Mill	7500	12/27	18	3.8	--	--
White Knob	7700	12/29	12	2.2	0.0	3.6
LITTLE WOOD RIVER						
#Bear Canyon	7920	12/27	33	7.8	--	--
Garfield Ranger Station	6554	12/28	23	5.7	--	4.4*
Muldoon	6300	12/28	18	4.4	--	3.2*
Swede Peak	7650	12/28	31	7.6	--	--
BIG WOOD RIVER						
#Couch Summit	6950	12/29	30	8.1	--	7.4*
Galena	7300	12/27	49	11.0	0.0	8.0
Galena Summit	8795	12/27	53	13.9	1.0	10.4
Graham Ranch	6200	12/29	26	5.3	0.0	5.6
#Lost-Wood Divide	7900	12/27	45	12.2	--	--
Mascot Mine	7900	12/27	27	6.9	--	--
Mount Baldy	9000	12/30	40	10.4	--	8.8
Soldier Ranger Station	6100	12/29	22	5.5	--	5.2*
#Vienna Mine	8960	12/27	78	23.4	1.1	--
BOISE RIVER						
Atlanta Summit	7500	12/27	68	19.3	0.7	15.2*
Bad Bear	5500	12/28	30	7.7	0.9	6.5*
#Bogus Basin	6120	12/29	26	7.5	1.7	9.3
Bogus Basin Road	5360	12/29	9	2.2	0.9	2.4*
Couch Summit	6950	12/29	30	8.1	--	7.4*
Graham Guard Station	5690	12/27	40	12.1	0.7	--
Jackson Peak	7000	12/27	65	18.8	1.0	--
Moores Creek Summit	6100	12/28	63	19.5	1.9	13.0
#Soldier Ranger Station	6100	12/29	22	5.5	--	5.2*
Trinity Mountain	7780	12/27	75	26.1	0.5	19.1*
#Vienna Mine	8960	12/27	78	23.4	1.1	--

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME		Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average 6
PAYETTE RIVER							
#Big Creek Summit		6600	1/1	76	22.4	1.8	13.8*
Bogus Basin		6120	12/29	26	7.5	1.7	9.3
#Brundage Mountain		7560	12/28	85	26.5	2.2	18.6*
Cozy Cove		5400	12/27	33	8.4	1.0	6.9
Crawford Ranger Station		4800	1/1	14	3.0	0.0	3.1*
Deadwood Airstrip		5440	12/27	28	7.4	--	6.6
Deadwood Summit		7000	12/27	86	27.1	1.7	24.4*
#Jackson Peak		7000	12/27	65	18.8	1.0	--
Lake Fork		6000	12/31	39	9.8	1.2	--
Rock Flat Summit		5200	12/28	36	8.7	1.0	6.8
Secesh Summit		6520	12/31	67	20.7	1.7	--
Squaw Meadow		5800	12/31	67	20.9	1.3	--
WEISER RIVER							
Boulder Creek		5500	12/30	46	11.8	0.8	10.0*
MIDDLE SNAKE RIVER BASIN - SOUTHSIDE							
RAFT RIVER							
Howell Canyon		8000	1/3	46	14.2	0.0	9.9
SALMON FALLS CREEK							
#Bear Creek (A)	Nev.	7800	1/3	34	10.2	--	7.5*
Cedar Creek (A)		7000	1/3	14	4.0	--	4.1*
Deadline		6900	12/29	32	9.6	--	8.7
Goat Creek	Nev.	8800	12/28	23	6.7	--	7.2*
#Hummingbird Springs	Nev. (A)	8945	1/3	35	9.5	--	9.0*
Magic Mountain		6700	12/29	26	7.8	--	6.9
#Pole Creek R. S.	Nev.	8330	12/28	23	6.4	--	7.7
Wilson Creek (A)		7500	1/3	15	3.5	--	--
BRUNEAU RIVER							
Bear Creek (A)	Nev.	7800	1/3	34	10.2	--	7.5*
Hummingbird Springs	Nev. (A)	8945	1/3	35	9.5	--	9.0*
Pole Creek R. S.	Nev.	8330	12/28	23	6.4	--	7.7
#Seventy-six Creek	Nev. (A)	7100	1/3	24	6.7	--	6.2*
OWYHEE RIVER							
#Bear Creek (A)	Nev.	7800	1/3	34	10.2	--	7.5*
#Seventy -six Creek	Nev. (A)	7100	1/3	24	6.7	0.0	6.2*
Silver City		6400	12/29	20	5.3	0.0	5.6*
South Mountain		6340	12/31	21	5.6	0.0	4.9*

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation ‖ater content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

USDA-SCS PORTLAND OREGON 1974 M7-0-22023P

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Average 6
UPPER SNAKE RIVER BASIN						
CAMAS-BEAVER CREEKS						
Camp Creek	6800	12/29	11	2.0	0.0	4.3
Kilgore	6200				0.0	4.4*
HENRYS FORK RIVER						
Big Springs	6400	12/29	38	11.0	1.8	7.8
Grassy Lake Wyo.	7230	12/28	70	19.4	3.5	14.1
Island Park	6315	12/29	30	7.9	1.4	6.1
Sawtell Mountain	8720	12/29	52	15.0	1.5	14.0*
Targhee Pass	7000	12/29	25	6.3	2.0	6.5*
Valley View	6500	12/29	26	6.2	1.4	6.3
White Elephant	7700	12/29	46	12.6	0.7	--
TETON RIVER						
Darby Canyon Wyo.	8250	12/27	42	11.1	3.4	--
Freds Mountain Wyo.	8150	12/27	56	14.6	2.9	--
Garns Mountain	8300	12/27	74	23.0	3.2	--
Indian Meadows Wyo.	8240	12/27	75	20.6	3.8	--
Jackpine Creek Wyo.	7350	12/27	42	11.2	1.4	--
McRenolds Reservoir	6800	12/27	34	8.7	1.1	--
Miles Creek Wyo.	7300	12/27	30	7.8	1.5	--
Pine Creek Pass	6750	12/27	38	9.4	1.0	6.6*
State Line	6650	12/27	27	6.0	1.2	5.7
WILLOW CREEK						
Aspen Grove	6600	12/28	16	4.2	--	--
Birch Creek	6800	12/28	13	3.6	--	--
Blue Ridge	6800	12/28	23	6.4	--	--
Bone	6200	12/28	9	2.1	--	2.6*
Brockman Station	6430	12/28	15	3.8	--	--
Hell Creek	7100	12/28	29	7.3	--	--
Sheep Mountain	6510	12/28	24	6.4	--	--
Tex Creek	6700	12/28	17	3.0	--	--
BLACKFOOT RIVER						
Slug Creek Divide	7225	12/27	39	10.4	3.3	--
Somsen Ranch	7000	12/27	27	7.8	2.4	5.2*

*(b) 1958-72, 15 yeor period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimoted. (SP) Pressure Pillow snow-water equivalent. (R) Radiooctive Goge snow-water equivalent.*

USDA SCS PORTLAND OREGON 1974 M7-0-22023P

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average (b)
GREAT BASIN						
BEAR RIVER						
Emigrant Summit	7350	1/3	62	17.1	0.8	9.2*
Montpelier Creek						
Giveout	6840	12/28	30	7.8	2.8	4.6*
Little Beaver	6970	12/28	36	9.8	2.8	5.4*
Montpelier Creek	6570	12/28	21	5.2	1.7	3.5*
Whiskey Flat	6985	12/28	23	6.2	2.4	3.7*
Mink Creek						
#Emigrant Summit	7350	1/3	62	17.1	0.8	9.2*
Cub River						
Cub River R. S.	5400	1/4	23	6.0	0.0	--
Willow Flat	6100	1/4	39	10.6	0.0	--

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

USDA SCS PORTLAND OREGON 1974 M7-0-22023P

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U.S. Army Engineers

U.S. Department of Agriculture
Forest Service
Agricultural Research Service
Statistical Reporting Service

U.S. Department of Commerce
NOAA, National Weather Service

U.S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

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SOIL CONSERVATION SERVICE
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WATER SUPPLY OUTLOOK FOR IDAHO

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U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
FEB. 1, 1978

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are token at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and locol reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Dota for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SOME OF THE DATA IN THIS REPORT HAVE BEEN RECEIVED THROUGH THE SOIL CONSERVATION SERVICE'S NEW SNOTEL SYSTEM WHICH TRANSMITS INFORMATION VIA THE SPACE AGED METEOR BURST METHOD FROM DATA SITES TO MASTER STATIONS LIKE THESE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservotion Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, Phoenix, Arizono 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P.O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Woshington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.

USDA-SCS-PORTLAND OR 1977

WATER SUPPLY OUTLOOK for IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R. M. DAVIS

ADMINISTRATOR

SOIL CONSERVATION SERVICE

WASHINGTON, D.C.

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST

SOIL CONSERVATION SERVICE

BOISE, IDAHO

In Cooperation with

C. STEPHEN ALLRED

DIRECTOR

IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

JACK A. WILSON, Snow Survey Supervisor

GERALD A. BEARD, Asst. Snow Survey Supervisor

KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE

SNOW SURVEY SECTION

ROOM 345, 304 N. 8th ST.

BOISE, IDAHO 83702

USDA-SCS-PORTLAND, OR. 1976 M7-L-220238

WATER SUPPLY OUTLOOK for IDAHO

GENERAL STATEMENT FOR FEBRUARY 1, 1978

The water supply outlook for 1978 is good based on forecasts of ten major rivers in Idaho. Seasonal forecasts for the April through September period range from 99 percent of average for the Spokane River to 132 percent of normal for the Snake at Heise.

Snow surveys taken near February 1, 1978, indicate that snowfall during January was generally below average throughout Idaho. Total snowfall accumulation for the winter, however, remains near to well above normal, ranging from 95 percent of average on the Spokane River watershed to 157 percent of normal on the Blackfoot River drainage.

An isolated exception to the pattern is the Little Lost River area which reported only 66 percent of average snowpack. The Upper Snake River Basin in Wyoming, Bear River in Utah and Idaho, Blackfoot and Portneuf watersheds have a snowpack in excess of 130 percent of average.

January runoff in general was near normal, but reservoir storage continues below average. Normal climatic conditions for the remainder of the winter and spring seasons, combined with the present snowpack, should allow filling of major reservoirs on the Upper Snake and Payette Rivers.

The four Boise River reservoirs are at 31 percent of capacity and stand a good chance of filling, provided that irrigation demands do not require an early drawdown.

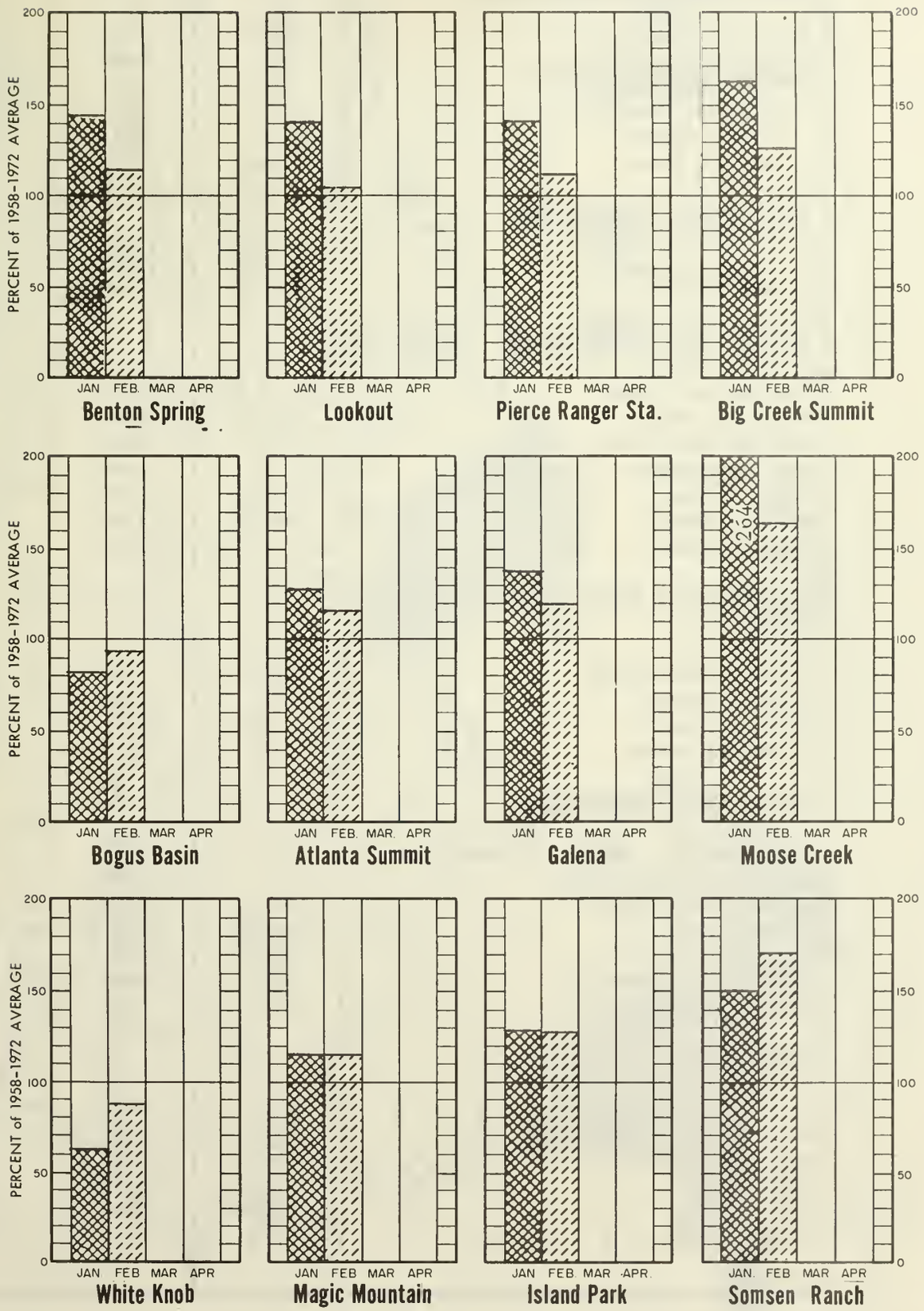
The National Weather Service reports that mild temperatures were experienced over Idaho during January, and valley precipitation was above normal, averaging 104 percent. It ranged from 75 percent at Grace in southeastern Idaho to 161 percent at Boise. For the 1977-78 water year, Idaho stands at 116 percent of normal which is a welcome relief from last year when it was only 30 percent at this time.

The weather patterns which brought the moist air to the state also brought in above normal temperatures. Temperatures were two degrees above normal in the northern part of Idaho to eight degrees above in the southern part.

The freezing level in January, with the warmer weather, has averaged higher than normal, often at 5,000 to 7,000 feet in the southwestern portion of the state.

SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1958-1972 15 Yr. Average

FEBRUARY 1, 1978

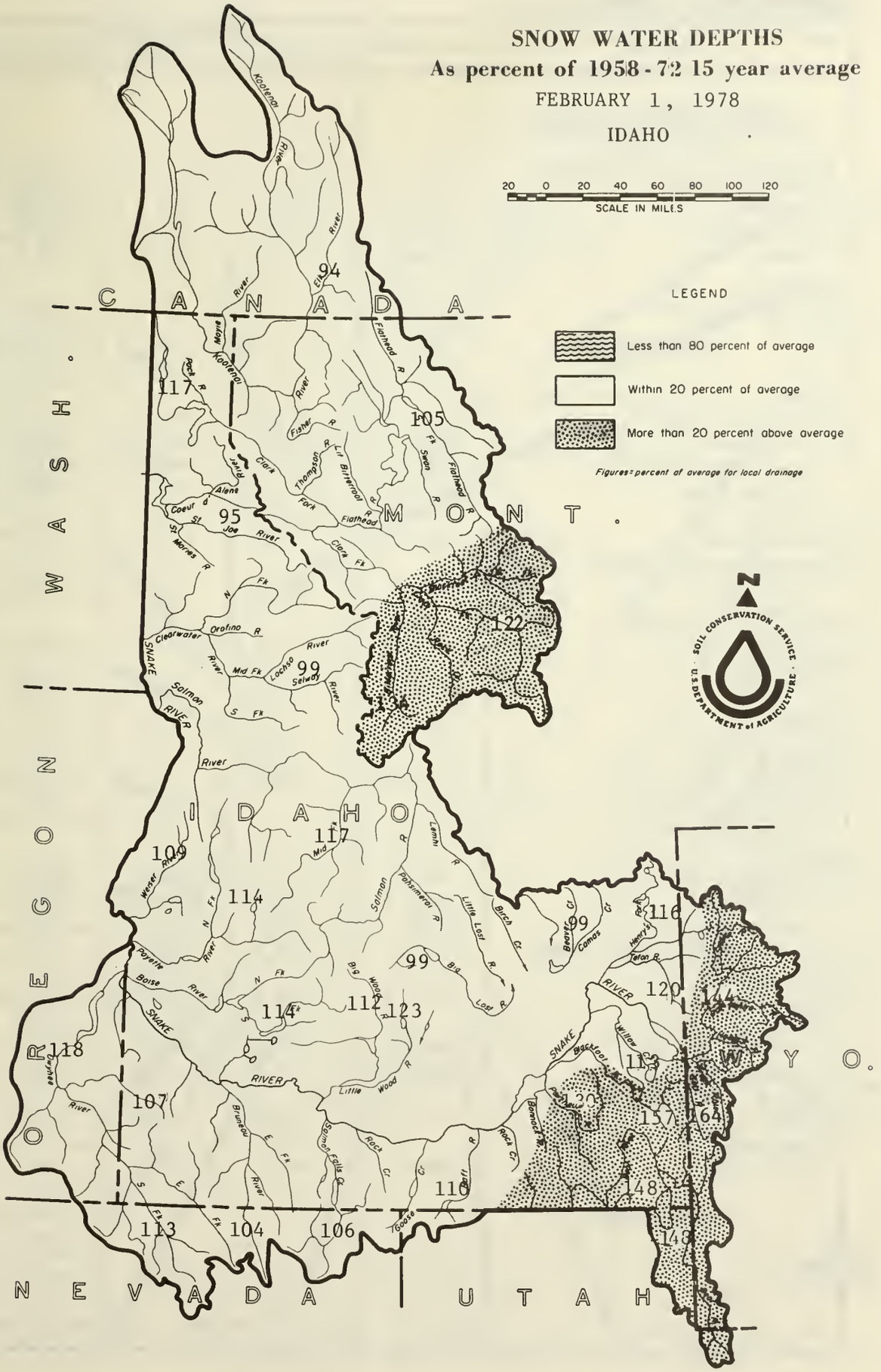


USDA-SCS-PORTLAND, OREGON 1978 M7-0-22023C1-L

COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : LAST YEAR	1958-72 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Kootenai River	26	230	94
Pend Oreille River	39	288	116
Clark Fork River	23	270	122
Flathead River	10	270	105
Priest River	4	401	117
Spokane River	3-4	292	95
LOWER SNAKE RIVER BASIN			
Clearwater River	7-10	336	99
Salmon River	12-13	710	117
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River	1	967	66
Big Lost River	6	904	99
Little Wood River	3-4	813	123
Big Wood River	8	1014	112
Boise River	11-12	1108	114
Payette River	10-12	732	114
Weiser River	1	1225	109
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River	1	1745	110
Salmon Falls Creek	8-9	721	106
Bruneau River	4	614	104
Owyhee River	3	1036	118
Jordan Creek	2	672	107
UPPER SNAKE RIVER BASIN			
Snake Basin - Above Palisades Res.	17	377	144
Camas-Beaver Creeks	2	378	99
Henrys Fork River	6-7	457	116
Teton River	2-11	352	120
Willow Creek	5-9	486	113
Blackfoot River	3-4	530	157
Portneuf River	4	532	130
GREAT BASIN			
Bear River - Upper	4	671	148
Bear River - Lower	20	613	138
Montpelier Creek	4-6	574	145
Mink Creek	7	637	150
Cub River	2-4	598	148
Malad River	4-5	682	153

USDA SCS PORTLAND OREGON 1972 • M7-L-220230


SNOW WATER DEPTHS
As percent of 1958 - 72 15 year average
FEBRUARY 1, 1978
IDAHO
20 0 20 40 60 80 100 120
SCALE IN MILES
LEGEND
Less than 80 percent of average
Within 20 percent of average
More than 20 percent above average
Figures = percent of average for local drainage
SOIL CONSERVATION SERVICE
U.S. DEPARTMENT of AGRICULTURE
CANADA
MONT.
WASH.
OREGON
IDAHO
WYO.
NEVADA
UTAH
94
117
105
95
122
99
109
117
114
99
116
120
144
114
112
123
118
107
113
157
164
110
148
113
104
106
148
Kootenai River
Elk River
Flathead R
Fisher R
Thompson R
Lit Bitterroot R
Swan R
Flathead R
Clark Fork
Flathead
Coeur d'Alene
St Joe River
St Maries R
Clark Fk
N Fk
Orofino R
Clearwater River
Mid Fk
Lochsa River
Selway River
S Fk
SNAKE RIVER
Salmon River
Lemhi R
Mid Fk
Pahsimeroi R
Little Lost R
Birch Cr
Beaver Cr
Camas Cr
Henry's Fork
Teton R
Weiser River
N Fk
Payette River
Boise River
Big Wood R
Big Lost R
Little Wood R
Willow Cr
Blackfoot
Bonnock R
Rock Cr
Bruneau River
E Fk
Salmon Falls Cr
Goose Cr
Bruneau River
S Fk
Owyhee River

RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1958-72 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	1791.0	2428.0	2484.0
Flathead	1791.0	1920.0	897.8	1246.0
Pend Oreille	1155.1	138.5	233.0	438.2
Noxon	334.6	321.2	269.1	320.8
Spokane				
Coeur d'Alene	225.1	134.7	21.7	138.4
SNAKE BASIN				
Snake				
Jackson Lake	847.0	307.4	586.0	540.9
Palisades	1200.0	263.2	1026.4	782.1
American Falls	1700.0	975.2	980.2	623.6
Island Park	127.0	87.1	109.5	99.9
Grassy Lake	15.2	8.5	10.6	10.0
Brownlee	980.2	565.2	672.4	636.1*
Goose-Trapper Creeks				
Oakley	74.4	29.5	43.5	15.7
Salmon Falls Creek				
Salmon Falls	182.6	32.9	81.0	29.2
Big Lost				
Mackay	44.2	24.7	21.7	29.9
Big Wood				
Magic	191.5	17.0	69.2	92.8
Little Wood				
Little Wood	30.0	5.5	9.4	13.5
Fish Creek				
Carey Valley	14.4	2.0	5.5	--
Boise				
Anderson Ranch	423.2	75.7	330.3	257.1
Arrowrock	286.6	156.5	197.4	240.4
Lucky Peak	278.2	58.5	54.2	92.7
Lake Lowell (Deer Flat)	169.0	63.9	122.5	114.0
Owyhee				
Owyhee	715.0	259.1	486.8	407.7
Payette				
Cascade	653.2	273.9	366.3	342.1
Deadwood	161.9	47.9	82.4	73.8
Weiser				
Mann Creek	11.1	3.4	2.9	--
Clearwater				
Dworshak	2016.0	867.0	876.3	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	774.8	1030.6	944.9

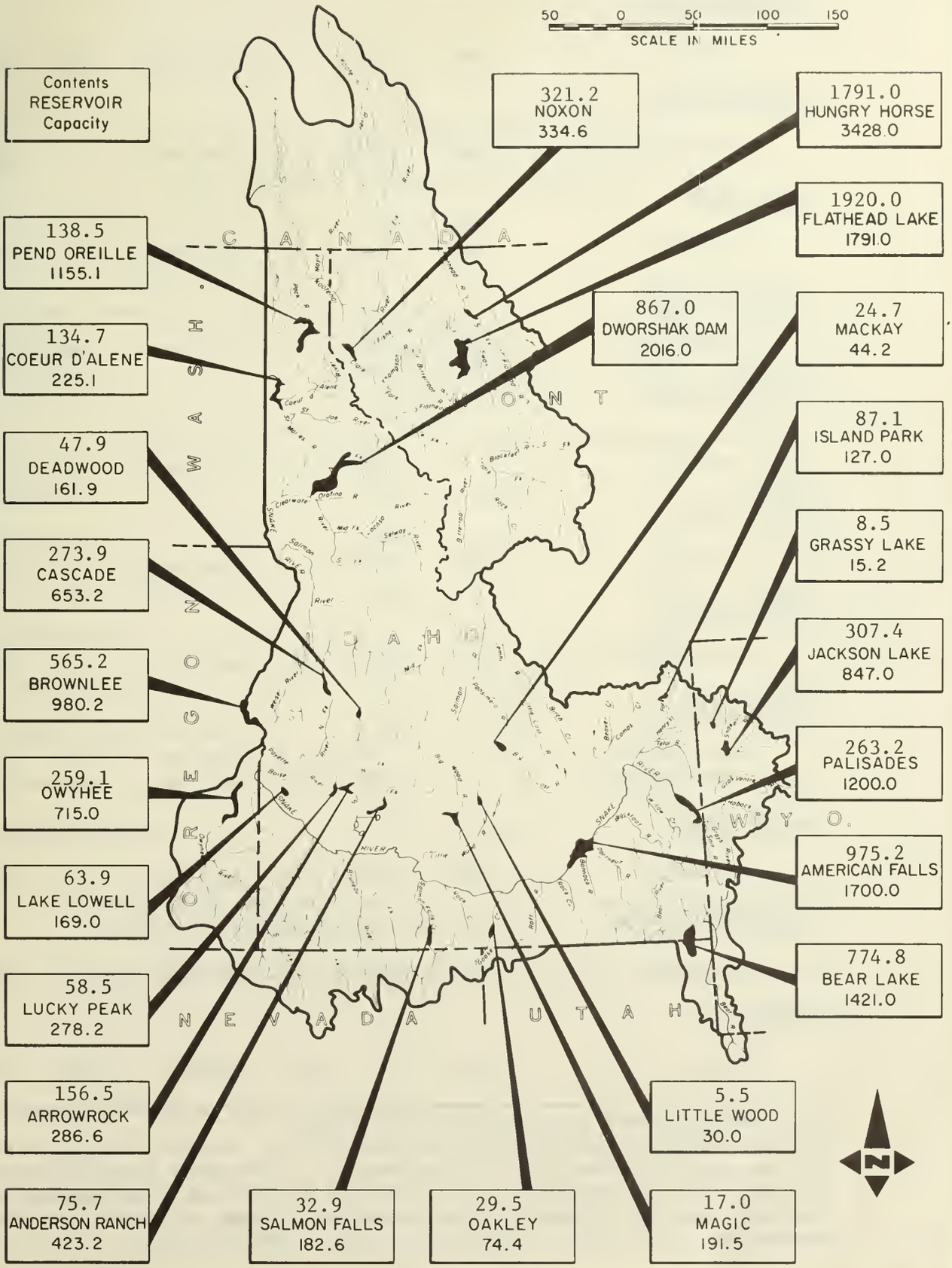
*Period of Record.

USDA SCS PORTLAND OREGON 1974 M7-L-22023R

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

FEBRUARY 1, 1978



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST[c] Thousand Acre Feet	THIS YEAR FORECAST[c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average †
KOOTENAI RIVER						
Leonia	(at)	8100	89	Apr-Sep	4910	9073
SPOKANE RIVER						
Post Falls 1/	(at)	2950	99	Apr-Sep	--	3008
SNAKE RIVER						
Heise 2/	(nr)	5200	132	Apr-Sep	--	3946
BIG LOST RIVER						
Mackay 3/	(nr)	185	101	Apr-Sep	--	183
BIG WOOD RIVER						
Magic Reservoir Inflow		325	108	Apr-Sep	--	301
BOISE RIVER						
Boise 4/	(nr)	1970	122	Apr-Sep	--	1612
PAYETTE RIVER						
Horseshoe Bend 5/	(nr)	2150	116	Apr-Sep	--	1850
OWYHEE RIVER						
Lake Owyhee		575	113	Feb-Jul	--	510
net inflow 6/		385	116	Apr-Sep	--	332
SALMON RIVER*						
Whitebird	(at)	8300	119	Apr-Sep	--	6959
CLEARWATER RIVER*						
Spalding	(at)	9470	110	Apr-Sep	--	8605
BEAR RIVER						
Harer	(at)	313	105	Apr-Sep	35	271

(c) Assuming normal meteorological conditions.
1/ Observed flow corrected for storage in Coeur d'Alene Lake. 2/ Corrected for storage in Jackson Lake and Palisades. 3/ Observed flow corrected for storage in Mackay Reservoir. 4/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 5/ Corrected for storage in Cascade and Deadwood Reservoirs. 6/ U.S.B.R. records of inflow. *NWS forecast.

VALLEY PRECIPITATION [1]

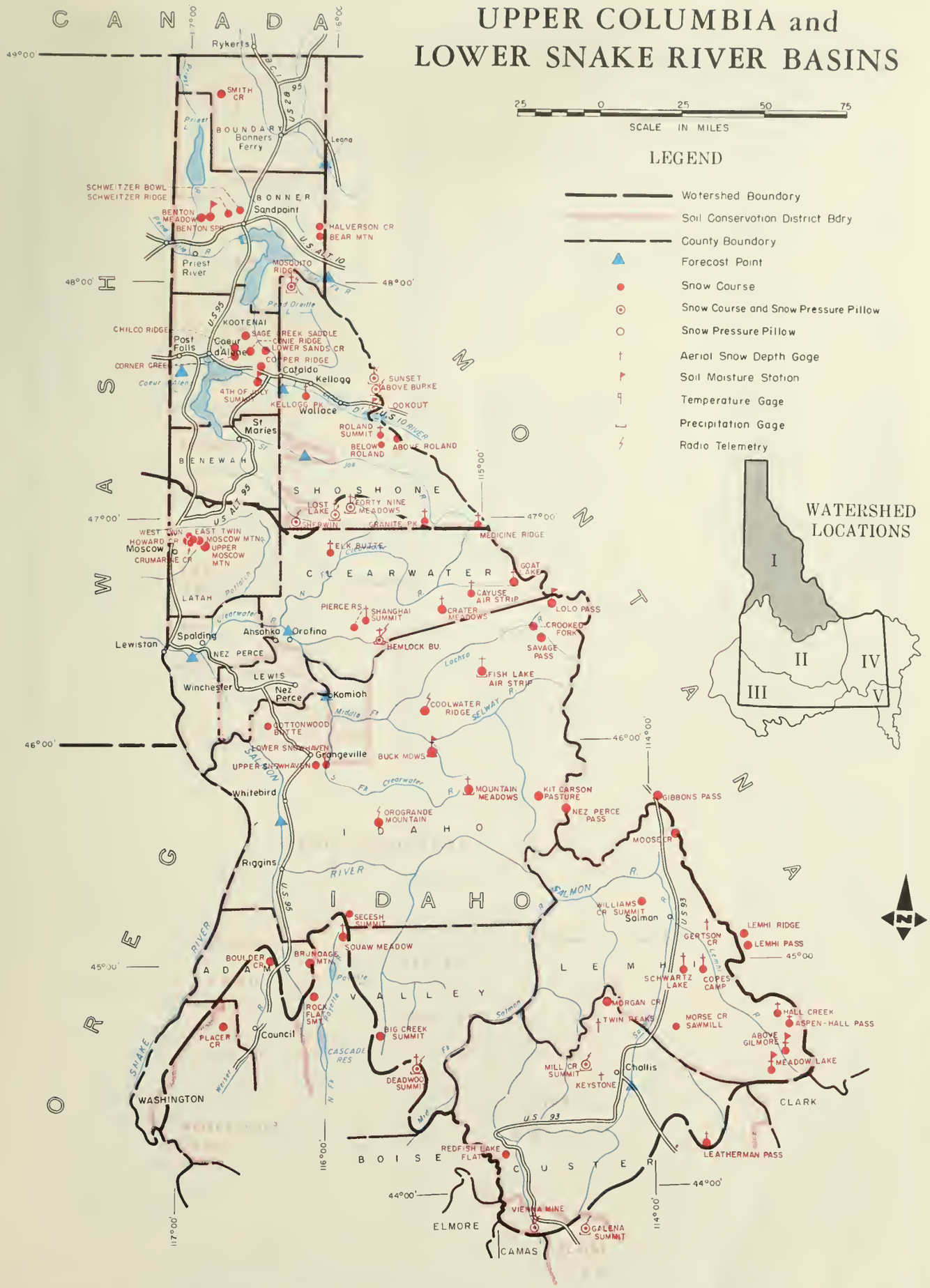
Division Averages and Departures

In Inches

DRAINAGE DIVISIONS	Winter January 1978		Fall - Winter Nov. 77 - Jan. 78	
	Observed	Departure [2]	Observed	Departure [2]
Kootenai, Canada & U.S.	2.59	-0.89	10.44	+0.74
Flathead	2.57	-0.28	9.47	+2.01
Clark Fork	1.36	-0.83	7.21	+1.70
Pend Oreille-Spokane	3.13	-1.29	13.88	+1.70
Upper Snake	3.28	+6.50	10.05	+3.31
Snake River Plain	1.31	+0.08	4.07	+0.55
Salmon-Payette-Boise	2.84	-0.46	10.54	+2.23
Clearwater	3.61	-1.13	15.69	+3.64
Owyhee-Malheur	1.87	+0.39	5.28	+1.31

1/ Preliminary analysis and data by the National Weather Service and Meterological Service of Canada.

2/ Departure from 15-year (1958-1972) drainage division average.


UPPER COLUMBIA and
LOWER SNAKE RIVER BASINS
SCALE IN MILES
25 0 25 50 75
LEGEND
Watershed Boundary
Soil Conservation District Bdry
County Boundary
Forecast Point
Snow Course
Snow Course and Snow Pressure Pillow
Snow Pressure Pillow
Aerial Snow Depth Gage
Soil Moisture Station
Temperature Gage
Precipitation Gage
Radio Telemetry
WATERSHED LOCATIONS
I
II
III
IV
V
CANADA
WASHINGTON
IDAHO
OREGON
MONTANA
Rykerts
Bonners Ferry
Sandpoint
Priest River
Post Falls
Coeur d'Alene
Kellogg
Wallace
St Maries
Moscow
Lewiston
Spalding
Orofino
Grangeville
Kamiah
Winchester
Whitebird
Riggins
Council
Salmon
Challis
Mackay
Arco
Dubois
Clayton
Stanley
Ketchum
Sun Valley
Hailey
Gooding
Shoshone
Twin Falls
Jerome
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Pocatello
Blackfoot
Idaho Falls
Rexburg
Driggs
Victor
Jackson
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Star Valley
Alpine
Montpelier
Bear Lake
Paris
Bloomington
Georgetown
Bear River
Evanston
Kemmerer
Cokeville
Lincoln
Sublette
Teton
Fremont
Madison
Bonneville
Caribou
Bingham
Power
Oneida
Franklin
Cassia
Minidoka
Lincoln
Blaine
Camas
Elmore
Boise
Custer
Clark
Lemhi
Valley
Adams
Washington
Payette
Canyon
Gem
Owyhee
Ada
Boundary
Bonner
Kootenai
Shoshone
Benewah
Latah
Clearwater
Nez Perce
Lewis
Idaho
SMITH CR
BENTON MEADOW
BENTON SPR
HALVERSON CR
BEAR MTN
MOSQUITO RIDGE
CHILCO RIDGE
CORNER CREEK
SAGE CREEK SADDLE
CONIE RIDGE
LOWER SANDS CR
COPPER RIDGE
4TH OF JULY SUMMIT
KELLOGG PK
SUNSET
ABOVE BURKE
LOOKOUT
ROLAND SUMMIT
BELOW ROLAND
ABOVE ROLAND
LOST LAKE
FORTY NINE MEADOWS
SHERWIN
GRANITE PK
MEDICINE RIDGE
WEST TWIN
EAST TWIN
HOWARD CR
MOSCOW MTN
UPPER MOSCOW MTN
CRUMARINE CR
ELK BUTTE
GOAT LAKE
CAYUSE AIR STRIP
LOLO PASS
PIERCE RS
SHANGHAI SUMMIT
CRATER MEADOWS
CROOKED FORK
HEMLOCK BU.
SAVAGE PASS
FISH LAKE AIR STRIP
COOLWATER RIDGE
COTTONWOOD BUTTE
LOWER SNOWHAVEN
UPPER SNOWHAVEN
BUCK MDWS
MOUNTAIN MEADOWS
KIT CARSON PASTURE
NEZ PERCE PASS
GIBBONS PASS
OROGRANDE MOUNTAIN
MOOSER
SECESH SUMMIT
SQUAW MEADOW
BRUNDAGE MTN
BOULDER CR
ROCK FLAT SMT
PLACER CR
BIG CREEK SUMMIT
CASCADE RES
DEADWOOD SUMMIT
WILLIAMS CR SUMMIT
GERTSON CR
LEMHI RIDGE
LEMHI PASS
SCHWARTZ LAKE
COPES CAMP
MORGAN CR
TWIN PEAKS
MORSE CR SAWMILL
HALL CREEK
ASPEN-HALL PASS
ABOVE GILMORE
MEADOW LAKE
MILL CR SUMMIT
KEYSTONE
LEATHERMAN PASS
REDFISH LAKE FLAT
VIENNA MINE
GALENA SUMMIT
117°00'
116°00'
115°00'
114°00'
49°00'
48°00'
47°00'
46°00'
45°00'
44°00'
US 95
US ALT 95
US 10
US ALT 10
US 93
SALMON RIVER
SNAKE RIVER
CLEARWATER RIVER
N

INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
UPPER COLUMBIA BASIN						
		KOOTENAI RIVER				
16A7	I	Halverson Creek	3	57N	3E	4850
16A1	I	Smith Creek	29	64N	3W	4800
		PEND OREILLE - PRIEST RIVER				
16A8	I	Bear Mountain	9	57N	3E	5400
16A2	I	Benton Meadow	27	58N	4W	2370
16A3	I	Benton Spring	30	58N	3W	4900
16A6	I	Schweitzer Bowl	20	58N	2W	4500
16A5	I	Schweitzer Ridge	19	58N	2W	6200
		HAYDEN CREEK				
16B8	I	Chilco Ridge	15	52N	2W	3650
16B7	I	Conie Ridge	22	52N	2W	3900
16B9	I	Corner Creek	22	52N	2W	3150
16B6	I	Sage Creek Saddle	10	52N	2W	4100
		SPOKANE RIVER				
15B8SP	I	Above Burke	11	48N	5E	4100
15B7	I	Above Roland	35	47N	6E	4350
15B6	I	Below Roland	3	46N	6E	3840
16B2	I	Copper Ridge	6	50N	1W	4800
16B3M	I	Fourth of July Summit	6	49N	1W	3200
15B13A	I	Granite Peak	3	42N	8E	6000
16B5A	I	Kellogg Peak	19	48N	3E	5560
15B2MSP	I	Lookout	4	47N	6E	5120
16B1	I	Lower Sands Creek	32	51N	1W	3400
15B4ASP	I	Medicine Ridge	24	43N	10E	6160
16A4ASP	I	Mosquito Ridge	5	54N	2E	5110
15B5A	I	Roland Summit	26	47N	6E	5200
16C1SP	I	Sherwin	28	42N	1E	3200
15B9ASP	I	Sunset	33	49N	5E	5600
LOWER SNAKE BASIN						
		PALOUSE RIVER				
16C6	I	Crumarine Creek	24	40N	5W	3340
16C3	I	East Twin	13	40N	5W	4050
16C5	I	Howard Creek	14	40N	5W	3500
16C2	I	Moscow Mountain	18	40N	4W	4400
16C4P	I	West Twin	14	40N	5W	4250

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
		CLEARWATER RIVER				
15D5MAP	I	Buck Meadows	26	31N	8E	5650
15C3A	I	Cayuse Airstrip	4	38N	11E	3700
15C7S	I	Coolwater Mountain	32	33N	8E	6200
16C16	I	Cottonwood Butte	33	32N	1W	5140
15C9A	I	Crater Meadows	2	37N	9E	6100
14C10	I	Crooked Fork	27	37N	14E	3800
16C15A	I	Elk Butte	6	40N	3E	5550
15C2AP	I	Fish Lake Airstrip	35	35N	11E	5000
15B3ASP	I	Forty-nine Meadows	6	43N	5E	4880
14C9A	I	Goat Lake	4	38N	13E	6600
16C6AP	I	Hemlock Butte	7	36N	7E	5500
15C8S	M	Hoodoo Basin	17	14N	27W	6000
15C1	M	Hoodoo Creek	16	14N	27W	5900
14D3	I	Kit Carson Pasture	4	27N	16E	5020
14C5M	I	Lolo Pass	16	38N	15E	5240
15B14AS	I	Lost Lake	16	43N	4E	6000
16D7	I	Lower Snowhaven	9	29N	3E	5300
15D6AP	I	Mountain Meadows	9	27N	10E	6300
14D1	M	Nez Perce Pass	25	1S	24W	6575
15D4S	I	Orogrande Mountain	24	27N	6E	7800
15C5	I	Pierce Ranger Station	2	36N	5E	3170
14C6	I	Powell Ranger Station	33	37N	14E	4230
14C4	I	Savage Pass	18	36N	15E	6170
15C4A	I	Shanghai Summit	7	37N	6E	4600
16D4	I	Upper Snowhaven	8 &9	29N	3E	5600
		SALMON RIVER				
13E19MA	I	Above Gilmore	13	13N	26E	8250
13E21A	I	Aspen-Hall Pass	6	16N	28E	8110
15E2	I	Big Creek Summit	24	15N	5E	6600
13E8A	I	Borah	21	10N	23E	8250
16D6	I	Brundage Mountain	6	19N	3E	7560
13E17A	I	Copes Camp	36	18N	22E	7500
13E25A	I	Double Springs Pass	3	10N	22E	8400
13D2	M	Gibbons Pass	4	2S	19W	7100
13E20A	I	Hall Creek	1	16N	27E	7560
13E24A	I	Leatherman Pass	20	9N	23E	9800
13E1	M	Lemhi Pass	9	10S	15W	7480
13E23	M	Lemhi Ridge	4	10S	15W	8100
13E18MA	I	Meadow Lake	25	13N	26E	9200
14E1MAP	I	Mill Creek Summit	8	13N	17E	8800
13D16	I	Moose Creek	14	27N	21E	6200
14E4	I	Morgan Creek	32	18N	19E	7580
13E26	I	Morse Creek Sawmill	8	15N	23E	7120
14E7	I	Redfish Lake Flat	35	10N	13E	6550
13E16A	I	Schwartz Lake	34	18N	22E	8500
14E3A	I	Twin Peaks	28	15N	17E	9170
14F4AP	I	Vienna Mine	1	5N	13E	8950
14D4	I	Williams Creek Summit	34	21N	20E	7800

LEGEND

Numbering System (exomple)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY
10J7p	STORAGE PRECIPITATION GAGE ONLY
10J7R	RADIOACTIVE GAGE

USDA SCS PORTLAND OREG. 1978 M7-OL-22023-1

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average 1/
UPPER COLUMBIA RIVER BASIN						
PEND OREILLE - PRIEST RIVER						
Benton Meadow	2370	1/30	24	6.3	1.7	6.0
Benton Spring	4900	1/30	50	15.8	3.2	13.8
Schweitzer Bowl	4500	2/1	78	25.5	7.0	22.6*
Schweitzer Ridge	6100	2/1	107	39.4	9.8	32.1*
SPOKANE RIVER						
Above Burke	4100	1/30	54	16.1	7.0	--
#Forty-nine Meadows	4880	1/30	68	17.3	--	--
Fourth of July Summit	3200	1/31	29	7.1	2.3	6.8*
Lookout	5120	1/30	85	27.4	7.0	26.4
#Lost Lake	6000	1/30	116	36.3	--	--
Sherwin	3200	1/27	28	7.6	3.6	11.0*
LOWER SNAKE RIVER BASIN						
CLEARWATER RIVER						
Breezy Saddle	5000	1/30	75	19.6	--	--
Cayuse Airstrip	3700	1/30	36	7.2	3.6	9.4*
Crater Meadows	6100	1/30	100	28.7	10.4	31.2*
Crooked Fork	3600	1/30	44	12.4	4.5	--
Elk Butte	5550	1/30	80	21.7	--	--
Fish Lake Airstrip	5000	1/30	84	22.7	8.4	28.0*
Forty-nine Meadows	4880	1/30	68	17.3	--	--
Hemlock Butte	5500	2/3	122	32.7	9.9	32.8*
Lolo Pass	5240	1/30	82	26.8	6.6	22.9*
Lost Lake	6000	1/30	116	36.3	--	--
Lower Snowhaven	5300	2/1	56	15.5	3.0	--
Pierce Ranger Station	3170	2/2	37	9.4	3.0	8.4
Savage Pass	6170	1/30	75	23.4	6.0	19.7*
Shanghai Summit	4600	2/3	79	19.2	5.9	17.8*
Upper Snowhaven	5600	2/1	43	15.3	2.4	--
SALMON RIVER						
Big Creek Summit	6600	1/29	100	31.6	3.4	24.9
#Boulder Creek	5500	1/31	61	19.6	1.6	17.9*
Brundage Mountain	7560	1/30	105	35.5	5.2	34.7*
#Deadwood Summit	7000	2/2	115	38.4	3.2	33.9*
#Galena Summit	8795	1/31	63	19.6	2.0	16.7
#Gibbons Pass Mont.	7100	2/2	71	22.1	5.9	16.0
Mill Creek Summit	8870	1/31	56	17.3	2.1	17.8*
Moose Creek	6200	1/31	55	19.2	4.2	11.8
Morgan Creek	7580	1/30	42	12.6	1.8	10.5*

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

USDA SCS PORTLAND OREGON 1974 M7-0-22023P

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average (b)
#Rock Flat Summit	5200	1/30	54	15.0	3.0	12.3
#Secesh Summit	6520	1/26	85	27.8	4.5	--
#Squaw Meadow	5800	1/26	87	29.1	4.7	25.9*
Vienna Mine	8960	1/30	89	30.1	3.2	25.4*
MIDDLE SNAKE RIVER BASIN - NORTHSIDE						
LITTLE LOST RIVER						
Wet Creek Summit	7600	1/27	28	5.8	0.6	8.8*
BIG LOST RIVER						
Bear Canyon	7920	1/30	46	12.4	1.1	--
Copper Basin	7650	1/30	27	7.6	0.0	7.3*
Fishpole Lake	9350	1/30	59	18.0	3.0	--
Iron Bog	7650	1/31	42	11.0	--	10.8*
Leadbelt	6800	1/30	31	7.8	--	7.6*
Lost-Wood Divide	7900	1/30	57	16.8	2.3	17.3*
Stickney Mill	7500	1/30	30	6.2	0.0	6.0*
White Knob	7700	1/26	26	5.9	1.0	6.7*
LITTLE WOOD RIVER						
#Bear Canyon	7920	1/30	46	12.4	1.1	--
Garfield Ranger Station	6554	1/28	38	10.3	1.2	7.9*
Muldoon	6300	1/28	28	7.6	1.4	6.2*
Swede Peak	7650	1/28	49	13.6	1.7	11.5*
BIG WOOD RIVER						
#Couch Summit	6950	1/29	52	14.9	1.8	13.8
Galena	7300	1/31	55	17.1	1.5	14.3
Galena Summit	8795	1/31	63	19.6	2.0	16.7
Graham Ranch	6200	1/31	41	11.7	1.0	10.0
#Lost-Wood Divide	7900	1/30	57	16.8	2.3	17.3*
Mascot Mine	7900	1/30	42	12.7	0.0	--
Mount Baldy	9000	1/30	53	16.0	--	14.6
Soldier Ranger Station	6100	1/29	39	11.0	1.4	9.9
#Vienna Mine	8960	1/30	89	30.1	3.2	25.4*
BOISE RIVER						
Atlanta Summit	7500	1/30	92	28.8	2.1	24.9
Bad Bear	5500	2/2	43	12.7	1.6	10.8*
#Bogus Basin	6120	1/30	55	16.3	2.3	17.3
Bogus Basin Road	5360	1/30	24	7.0	0.0	5.9
Couch Summit	6950	1/29	52	14.9	1.8	13.8

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

MIDDLE SNAKE RIVER BASIN
NORTHSIDE

LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and Snow Pressure Pillow
- Snow Pressure Pillow
- Aerial Snow Depth Gage
- Soil Moisture Station
- Temperature Gage
- Precipitation Gage
- Radio Telemetry

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INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN NORTHSIDE

LITTLE LOST RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
13E5M	I	Fairview Guard Station	27	12N	26E	6750
13E3	I	Lost-Garfield	3	11N	26E	6600
13E6	I	Moonshine	31	13N	26E	7500
13E4	I	Sawmill Canyon	17	12N	26E	6900
13E7MP	I	Wet Creek Summit	15	8N	25E	7760

BIG LOST RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
13F3	I	8ear Canyon	22	5N	21E	7920
13F2A	I	Copper 8asin	25	6N	21E	7650
13F3A	I	Fishpole Lake	28	4N	22E	9350
13F11	I	Iron Bog	23	4N	22E	7650
13F12	I	Leadbelt	34	4N	23E	6800
14F3A	I	Lost Wood Divide	25	6N	18E	7900
14F2A	I	Stickney Mill	9	6N	19E	7450
13F1	I	White Knob	25	7N	23E	7700

BIG WOOD RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
15F9	I	Camas Creeks Divide	11	2S	9E	5720
14F8	I	Dollarhide Summit	9	3N	15E	8400
14F1M	I	Galena	2	6N	15E	7440
14F12MPS	I	Galena Summit	5	6N	15E	8780
14F5	I	Graham Ranch	10	5N	17E	6280
14F7	I	Mascot Mine	8	4N	20E	7760
14F9	I	Mount Baldy	26	4N	17E	9000
14F11	I	Soldier Ranger Station	19	2N	14E	6100

LITTLE WOOD RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
13F4	I	Garfield Ranger Station	11	3N	21E	6560
13F5	I	Muldoon	25	3N	21E	6300
13F9R	I	Swede Peak	4	3N	21E	7640

FISH CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
13F10	I	Iron Mine Creek	32	3N	23E	6370
13F6	I	Telfer Ranch	12	2N	22E	6000

BOISE RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
15F4APS	I	Atlanta Summit	23	5N	10E	7500
15F2	I	Bad 8ear	35	7N	6E	5500
16F4	I	Bogus Basin Road	32	5N	3E	5520
14F10	I	Couch Summit	9	2N	14E	6850
16F1	I	Deadman Gulch	29	7N	4E	5600
15F14PSR	I	Graham Guard Station	9	7N	10E	5690
15E9AP	I	Jackson Peak	7	8N	9E	7070
15F1MPSR	I	Moores Creek Summit	19	7N	7E	6100
15F6P	I	Prairie	13	2N	7E	4800
15F3A	I	Road Creek	5	5N	8E	5550
15FAPSR	I	Trinity Mountain	6	3N	9E	7780

CANYON CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
15F7	I	Bennett Mountain	7	2S	9E	6650
15F12	I	Little Camas Flat	21	1S	9E	4950

PAYETTE RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
16F2PS	I	8ogus 8asin	16	5N	3E	6340
15E8PSR	I	Cozy Cove	17	11N	7E	5400
15E3	I	Crawford Ranger Station	21	14N	4E	4800
15E10	I	Deadwood Airstrip	8	11N	7E	5440
15E4AS	I	Deadwood Summit	23	14N	7E	6800
16E4	I	High Valley Summit	9	10N	2E	5170
15E1	I	Lake Fork	3	18N	4E	6000
16E1	I	Rock Flat Summit	1	18N	2E	5340
15D1	I	Secesh Summit	4	21N	4E	6520
15D2	I	Squaw Meadow	17	21N	4E	5900
16E3	I	Tripod Summit	17	11N	3E	5200

WEISER RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
16D1P	I	8oulder Creek	16	20N	1W	5500
16E2	I	Placer Creek	15 & 16	17N	3W	6000

MANN CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
16E9	I	Mann Creek	20	15N	5W	6080
16E8	I	Sturgill Ridge	28	15N	5W	6680
17E1	I	Robinson Creek Ridge	2	14N	6W	6220
17E2	I	Thorson Cabin	12	14N	6W	5320

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average 1/
Graham Guard Station	5690	1/30	54	16.9	1.7	--
Jackson Peak	7000	2/2	88	30.1	2.2	23.7*
Moores Creek Summit	6100	1/30	86	26.7	2.3	23.4
Prairie	4900	1/29	16	4.4	0.8	5.5
#Soldier Ranger Station	6100	1/29	39	11.0	1.4	9.9
Trinity Mountain	7780	1/30	100	36.1	1.8	30.3
#Vienna Mine	8960	1/30	89	30.1	3.2	25.4*
PAYETTE RIVER						
#Big Creek Summit	6600	1/29	100	31.6	3.4	24.9
Bogus Basin	6120	1/30	55	16.3	2.3	17.3
#Brundage Mountain	7560	1/30	105	35.5	5.2	34.7*
Cozy Cove	5400	2/2	53	14.6	1.9	12.6
Crawford Ranger Station	4800	1/29	27	7.6	2.1	6.8
Deadwood Airstrip	5440	2/2	49	13.4	2.2	11.6
Deadwood Summit	7000	2/2	115	38.4	3.2	33.9*
#Jackson Peak	7000	2/2	88	30.1	2.2	23.7*
Lake Fork	6000	1/26	52	15.1	2.8	--
Rock Flat Summit	5200	1/30	54	15.0	3.0	12.8
Secesh Summit	6520	1/26	85	27.8	4.5	--
Squaw Meadow	5800	1/26	87	29.1	4.7	25.0*
WEISER RIVER						
Boulder Creek	5500	1/31	61	19.6	1.6	17.9*
MANN CREEK						
Mann Creek	6080	1/28	63	19.2	--	--
Robinson Creek Ridge	6220	1/28	52	18.9	--	--
Sturgill Ridge	6800	1/28	68	23.8	--	--
Thorson Cabin	5320	1/28	44	13.9	--	--

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

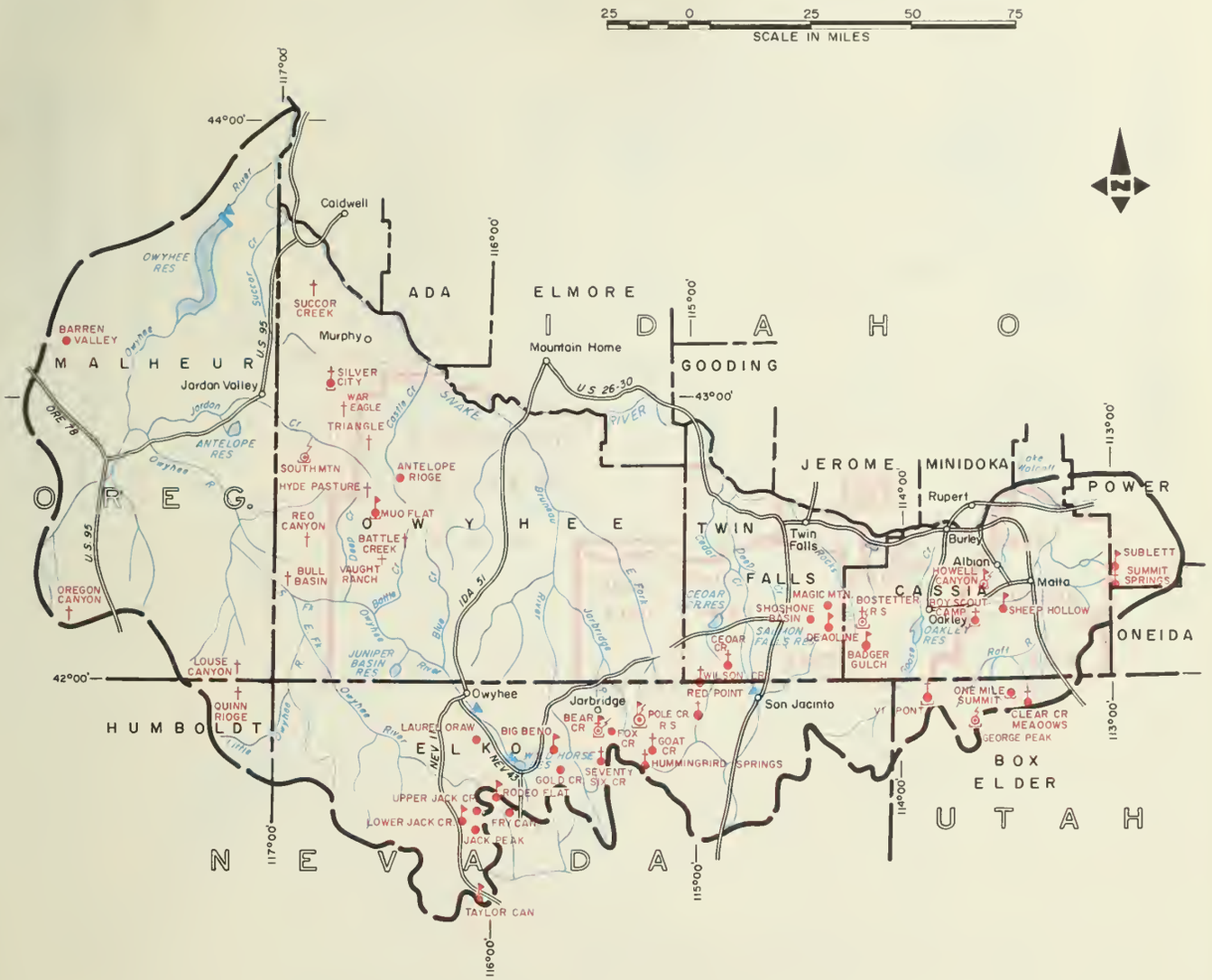
USDA SCS PORTLAND OREGON 1974 M7-0-22023P

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average [b]
MIDDLE SNAKE RIVER BASIN - SOUTHSIDE						
RAFT RIVER						
Howell Canyon	8000	1/30	55	19.2	1.1	17.4
SALMON FALLS CREEK						
#Bear Creek (A) Nev.	7800	1/27	50	14.8	1.9	13.0
Cedar Creek (A)	7000	1/27	28	8.2	0.0	6.4
Deadline	6900	1/30	50	16.0	1.8	15.6
Goat Creek Nev.	8800	1/28	41	11.8	1.8	11.4
#Hummingbird Springs (A) Nev.	8945	1/27	48	13.9	3.9	14.4
Magic Mountain	6700	1/30	45	14.2	1.6	12.3
#Pole Creek R.S. Nev.	8330	1/28	40	11.6	3.3	12.3
Shoshone Basin	5740	1/30	18	4.4	0.0	3.8*
Wilson Creek (A)	7500	1/27	33	8.2	0.0	--
BRUNEAU RIVER						
Bear Creek (A) Nev.	7800	1/27	50	14.8	1.9	13.0
Hummingbird Springs (A) Nev.	8945	1/27	48	13.9	3.9	14.4
Pole Creek R.S.	8330	1/28	40	11.6	1.6	12.3
#Seventy-six Creek (A) Nev.	7100	1/27	34	8.8	0.6	7.6
OWYHEE RIVER						
Battle Creek (A)	5700	1/24	12	4.5	--	2.8
#Bear Creek (A) Nev.	7800	1/27	50	14.8	1.9	13.0
Bull Basin (A)	5600	1/24	12	3.6	--	1.0
Hyde Pasture (A)	5800	1/24	20	6.3	--	4.2
Red Canyon (A)	6650	1/24	27	8.1	0.4	5.4
#Seventy-six Creek (A) Nev.	7100	1/27	34	8.8	0.6	7.6
Silver City	6400	1/31	39	11.4	2.0	11.1*
South Mountain	6340	1/29	34	10.1	1.2	9.0
Succor Creek (A)	6100	1/24	12	3.5	--	4.2*
Triangle (A)	5150	1/24	4	1.2	--	0.9
Vaught Ranch (A)	5950	1/24	20	6.0	--	2.8*
War Eagle (A)	7700	1/24	75	21.8	--	17.7*

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

MIDDLE SNAKE RIVER BASIN
SOUTHSIDE



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- ● Snow Course
- ⊙ Snow Course and Snow Pressure Pillow
- ○ Snow Pressure Pillow
- † Aerial Snow Depth Gage
- ⚑ Soil Moisture Station
- ⚲ Temperature Gage
- ⌴ Precipitation Gage
- ⚡ Radio Telemetry

INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN SOUTHSIDE

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
RAFT RIVER						
13G2AP	I	Boy Scout Camp	8	14S	24E	7760
13H2A	U	Clear Creek Meadows	26	14N	14W	9050
13H4SP	U	George Peak	4	13N	14W	9000
13G1MP	I	Howell Canyon	2	13S	24E	8000
13H1P	U	One Mile Summit	19	14N	14W	7330
13G5M	I	Sheep Hollow	4	14S	24E	6200
12G8M	I	Sublett	8	12S	30E	6000
12G9A	I	Summit Springs	15	13S	30E	6400
GOOSE - TRAPPER CREEK						
14G3M	I	Badger Gulch	24	15S	19E	6660
14G1AP	I	Bostetter Ranger Station	35	14S	19E	7500
13H3AP	U	Vi Pont	17	14N	17W	7670
SALMON FALLS CREEK						
14G5A	I	Cedar Creek	25	15S	13E	7000
14G4M	I	Deadline	25	14S	18E	6900
15H13A	N	Goat Creek	31	46N	60E	8800
14G2	I	Magic Mountain	14	14S	18E	6700
15H18A	N	Red Point	15	47N	61E	7940
14G6	I	Shoshone Basin	24	14S	17E	5740
15G2A	I	Wilson Creek	24	16S	12E	7500

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
BRUNEAU RIVER						
15H1MAP	N	Bear Creek	31	46N	58E	7800
15H2	N	Fox Creek	33	46N	58E	6800
15H15A	N	Hummingbird Springs	6	45N	60E	8950
15H14MP	N	Pole Creek Ranger Station	13	46N	59E	8330
OWYHEE RIVER						
16G6	I	Antelope Ridge	20	8S	1E	5900
18F5	O	Barren Valley	26	17S	38E	4200
16G9a	I	Battle Creek	10	11S	1E	5700
15H4M	N	Big Bend	30	45N	56E	6700
16G10a	I	Bull Basin	19	12S	5W	5600
15H7	N	Fry Canyon	31	43N	54E	6700
15H5	N	Gold Creek	31	45N	56E	6600
16G5a	I	Hyde Pasture	SE¼ 31	8S	2W	5800
16H4	N	Jacks Peak	28	42N	53E	8420
16H5	N	Laurel Draw	20	45N	53E	6700
17G4a	O	Louse Canyon	27	40S	44E	6440
16H1M	N	Lower Jack Creek	13	42N	53E	6800
16G7MP	I	Mud Flat	34	9S	2W	5500
17G5a	O	Oregon Canyon	9	40S	40E	6950
17H6a	N	Quinn Ridge	9	47N	41E	6300
16G11ap	I	Red Canyon	32	11S	4W	6650
15H6M	N	Rodeo Flat	36	43N	53E	6800
16F3AP	1	Silver City	6	5S	3W	6400
16G1PSR	I	South Mountain	35	7S	5W	6340
16F6a	I	Succor Creek	25	3S	5W	6100
15H9M	N	Taylor Canyon	35	39N	53E	6200
16G4a	I	Triangle	NW 35	7S	3W	5150
16H2	N	Upper Jack Creek	9	42N	53E	7250
16G12a	I	Vaught Ranch	10	11S	1W	5950
16G13a	I	War Eagle	20	5S	3W	7700

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW
10J7MA	SNOW COURSE SOIL MOISTURE STATION AND AERIAL MARKER
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY
10J7p	STORAGE PRECIPITATION GAGE ONLY
10J7R	RADIOACTIVE GAGE

USDA SCS PORTLAND OREG. 1974 M7-OL-22023-3

UPPER SNAKE RIVER BASIN

LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and Snow Pressure Pillow
- Snow Pressure Pillow
- Aerial Snow Depth Gage
- Soil Moisture Station
- Temperature Gage
- Precipitation Gage
- Radio Telemetry

INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
UPPER SNAKE RIVER BASIN						
SNAKE RIVER - WYOMING						
10G4	Wy	Afton Ranger Station	30	32N	118W	6200
10F1	Wy	Arizona	3	46N	115W	6850
10E8	Wy	Aster Creek	44° 17'		110° 38'	7700
10F2	Wy	Base Camp	20	46N	113W	6900
10F7	Wy	Blackrock	4	44N	111W	8600
10G2A	Wy	Blind Bull	6	34N	115W	8750
10F14	Wy	Bryan Flat	9	38N	115W	6250
10G7	Wy	CCC Camp	9	29N	118W	7500
10G5A	Wy	Cottonwood Lake	25	31N	118W	7500
10E10	Wy	Coulter Creek	44° 09'		110° 33'	7600
10F17MP	Wy	East Rim Divide #2	32	37N	111W	7950
10F6	Wy	Four Mile Meadows	35	45N	112W	7770
10E13	Wy	Glade Creek	12	48N	116W	7200
10F18	Wy	Greys Boundary	33	37N	118W	5800
10F19	Wy	Gros Ventre Summit	36	40N	111W	8750
10G3	Wy	Grover Park Divide	27	33N	118W	7500
10E14	Wy	Huckleberry Divide	32	48N	115W	7300
10E9PS	Wy	Lewis Lake Divide	44° 13'		110° 40'	7900
10F4MP	Wy	Moran	8 & 17	45N	114W	6800
10F3	Wy	Moran Bay	14	45N	116W	6800
10G6	Wy	Poison Meadows	29	30N	116W	8500
10G8P	Wy	Salt River Summit	32	29N	118W	7900
10E12MP	Wy	Snake River Station	9	48N	115W	6780
10F20M	Wy	Snow King Mountain #3	4	40N	117W	7600
10E7	Wy	Thumb Divide	44° 22'		110° 35'	7900
10F9MP	Wy	Togwotee Pass	29	44N	110W	9600
10F5	Wy	Turpin Meadows	14	45N	112W	6930
10G1A	Wy	Young's Ranch	26	34N	116W	6530
HENRYS FORK RIVER						
11E9	I	Big Springs	4	13N	44E	6400
11E18	I	Black Canyon	11	13N	45E	7850
11E19	I	Black Moose	33	14N	45E	8125
10E15	Wy	Grassy Lake	6	48N	117W	7230
11E10M	I	Island Park	28	13N	43E	6290
11E16	I	Latham Springs	9	13N	45E	7650
11E14	I	Lucky Dog	2	13N	45E	6900
11E32	I	Sawtell Mountain	7	14N	43E	8720
11E34	I	Targhee Pass	32	16N	44E	7000
11E3M	I	Valley View	7	15N	44E	6740
11E36	I	White Elephant	17	14N	43E	7700
TETON RIVER						
10F21	Wy	Darby Canyon	28	43N	118W	8250
10F22	Wy	Freds Mountain	12	44N	118W	8150
11F13	I	Garns Mountain	20	4N	44E	8300
10F25	Wy	Indian Meadows	31	46N	117W	8240
10F26	Wy	Jackpine Creek	15	46N	118W	7350
11F12	I	McRenolds Reservoir	5	7N	46E	6800
10F27	Wy	Miles Creek	13	44N	118W	7300
11F2M	I	Pine Creek Pass	24	3N	44E	6750
11F1M	I	State Line	32	3N	46E	6650
10F13	Wy	Teton Pass W. S.	24	41N	118W	8400
CAMAS - BEAVER CREEK						
11E11	I	Blue Ledge Mine	27	13N	38E	6700
12E3	I	Camp Creek	21	13N	36E	6800
11E12	I	Kilgore	6	12N	39E	6200
MEDICINE LODGE CREEK						
12E4	I	Irving Creek	20	13N	33E	7035
12E5	I	Webber Creek	23	12N	32E	6700
WILLOW CREEK						
11F10	I	Aspen Grove	36	2N	41E	6500
11F3	I	Birch Creek	36	2N	41E	6800
11F17I	I	Blue Ridge	35	2S	39E	6800
11F8	I	Bone	29	1S	40E	6250
11F16	I	Brockman Station	19	2S	43E	6430
11F15	I	Hell Creek	27	1S	42E	7100
11F14	I	Mud Creek	3	2S	39E	7150
11F11R	I	Sheep Mountain	30	2S	41E	6570
11F5R	I	Tex Creek	36	1N	42E	6650
SAND CREEK						
11F6	I	Henry Creek	7	1S	39E	5650
BLACKFOOT RIVER						
11G3	I	Austin Brothers Ranch	28	7S	43E	6400
11G5PS	I	Slug Creek Divide	15	10S	44E	7225
11G1MS	I	Somsen Ranch	25	5S	43E	7000
11G29	I	Ten Mile Pass	8	8S	41E	6250
PORTNEUF RIVER						
12G5	I	Dempsey Creek	18	10S	38E	6100
12G6M	I	Lower Pebble	7	8S	38E	5800
12G1	I	Mink Creek	33	7S	34E	6300
12G2M	I	Pebble Creek	34	7S	37E	6550

LEGEND

Numbering System (exomple)

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10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

USDA SCS PORTLAND ORE. 1975 M7-OL-22023-4

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME		Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average b/
UPPER SNAKE RIVER BASIN							
CAMAS-BEAVER CREEKS							
Camp Creek		6800	1/30	24	5.4	1.9	7.4
Kilgore		6200	1/28	34	9.7	2.1	7.9
HENRYS FORK RIVER							
Big Springs		6400	1/30	66	19.4	3.4	14.4
Grassy Lake	Wyo.	7230	1/30	100	30.8	9.9	23.2
Island Park		6315	1/30	53	14.8	3.1	11.6
Sawtell Mountain		8720	1/30	86	27.0	5.1	26.1*
Targhee Pass		7000	1/30	46	11.6	2.6	12.0*
Valley View		6500	1/30	47	12.2	2.2	12.3
White Elephant		7700	1/30	76	23.2	4.1	--
TETON RIVER							
Darby Canyon	Wyo.	8250	2/1	67	17.6	6.3	--
Freds Mountain	Wyo.	8150	2/1	82	21.6	7.0	--
Garns Mountain		8300	2/1	99	28.4	7.8	--
Indian Meadows	Wyo.	8240	2/1	111	32.6	8.4	--
Jackpine Creek	Wyo.	7350	2/1	71	19.2	5.0	--
McRenolds Reservoir		6800	2/1	60	16.0	5.2	--
Miles Creek	Wyo.	7300	2/1	53	10.8	3.8	--
Phillips Bench	Wyo.	8200	1/28	89	28.5	7.9	--
Pine Creek Pass		6750	2/1	60	14.8	3.5	11.5*
State Line		6650	2/1	47	10.8	2.7	9.9
Teton Pass W.S.	Wyo.	8400	1/28	74	23.7	6.1	--
WILLOW CREEK							
Aspen Grove		6600	1/28	37	8.5	2.5	8.1*
Birch Creek		6800	1/28	33	9.0	2.2	7.5*
Blue Ridge		6800	1/28	51	15.0	2.7	--
Bone		6200	1/28	24	6.8	1.5	6.2*
Brockman Station		6430	1/28	34	9.4	1.7	--
Hell Creek		7100	1/28	47	13.8	2.2	--
Mud Creek		7150	1/28	49	14.6	3.2	--
Sheep Mountain		6510	1/28	43	11.8	2.1	10.0*
Tex Creek		6700	1/28	30	6.9	1.6	6.2*
SAND CREEK							
Henry Creek		5650	1/28	24	7.0	2.0	3.1*

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

USDA SCS PORTLAND OREGON 1974 M7-0-22023P

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average [b]
BLACKFOOT RIVER						
Austin Bros. Ranch	6400	1/31	32	9.1	1.6	6.0
Slug Creek Divide	7225	2/1	56	17.0	2.9	11.5*
Somsen Ranch	7000	1/31	53	15.7	3.1	9.2
Ten Mile Pass	6250	1/31	29	9.6	2.1	--
PORTNEUF RIVER						
Dempsey Creek	6280	1/30	42	11.7	2.4	7.9
Lower Pebble	5800	1/30	45	13.2	2.5	9.3*
Mink Creek	6300	1/28	38	11.3	2.8	11.6*
Pebble Creek	6550	1/30	51	15.4	2.0	11.0
GREAT BASIN						
BEAR RIVER						
Emigrant Summit	7350	1/26	75	23.8	3.4	17.0*
Emigration Canyon	6500	1/26	36	11.0	2.5	7.8*
Montpelier Creek						
Giveout	6840	1/30	42	12.9	2.0	8.7*
Little Beaver	6970	1/30	50	15.2	2.4	10.9*
Lower Home Canyon	7500	2/1	45	14.0	3.0	--
Montpelier Creek	6570	1/30	30	9.3	1.3	6.0*
Upper Home Canyon	8500	2/1	69	22.8	4.3	--
Whiskey Flat	6985	1/30	33	9.6	1.6	6.9*
Mink Creek						
Christensen Ranch	5600	1/30	34	8.8	2.2	5.9
Dry Basin	7900	1/31	80	28.9	4.3	20.9*
#Emigrant Summit	7350	1/26	75	23.8	3.4	17.0*
Horseshoe Basin	8000	1/31	66	25.8	4.1	17.3*
Liberty Spring	8600	1/31	103	38.5	5.5	22.6*
Strawberry Creek	5800	1/26	39	11.1	2.2	7.2
Strawberry Mink Divide	6800	1/30	66	21.0	3.1	14.4
Cub River						
Cub River R.S.	5400	1/30	34	9.4	2.4	5.8
#Franklin Basin	8000	1/31	64	23.4	3.8	--
Willow Flat	6100	1/30	52	14.8	2.3	10.5
Worm Creek	6660	1/31	58	18.8	2.6	--

*(b) 1958-72, 15 year period. #Nat located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Goge snaw-water equivalent.*

GREAT BASIN

LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and Snow Pressure Pillow
- Snow Pressure Pillow
- Aerial Snow Depth Gage
- Soil Moisture Station
- Temperature Gage
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INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.

GREAT BASIN

BEAR RIVER

10G11	Wy	Big Park	7	27N	117W	8700
11H13MP	U	Dry Bread Pond	19	8N	4E	8230
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6500
11H7P	U	Garden City Summit	35	14N	4E	7600
10J6P	U	Burt's-Miller Ranch	19	3N	10E	7900
10J7P	U	Hayden Fork	1	1S	9E	9300
10G12	Wy	Kelly Ranger Station	13	26N	118W	8200
11H12P	U	Monte Cristo R. S.	3	8N	4E	8960
10G10	Wy	Piney LaBarge	19	29N	114W	8820
10J17P	U	Stillwater Camp	32	2N	10E	8550
10J28P	U	Whitney G. S.	4	1N	9E	9300

MONTPELIER CREEK

11G16	I	Giveout	2	12S	45E	6840
11G20	I	Little Beaver	26	11S	45E	6970
11G27	I	Lower Home Canyon	17	12S	45E	7500
11G18	I	Montpelier Creek	22	12S	45E	6570
11G26	I	Upper Home Canyon	31	11S	45E	8500
11G21	I	Whiskey Flat	26	11S	45E	6985

MINK CREEK

11G11	I	Christensen Ranch	27	13S	41E	5600
11G14A	I	Dry Basin	30	13S	42E	7900
11G6MP	I	Emigrant Summit	21	12S	42E	7350
11G15A	I	Horseshoe Basin	31	13S	42E	8000
11G13A	I	Liberty Spring	7	13S	42E	8600
11G9M	I	Strawberry Creek	9	13S	41E	5800
11G10	I	Strawberry Mink Divide	14	13S	41E	6800

CUB RIVER

11G12	I	Cub River Ranger Station	5	15S	41E	5400
11G8S	I	Franklin Basin	1	16S	41E	8000
11G4P	I	Willow Flat	2	15S	41E	6100
11G28	I	Worm Creek	28	14S	41E	6660

MALAD RIVER

12G13	I	Cliff Canyon	13	12S	35E	7200
12G12	I	Daniels Creek	11	12S	35E	6400
12G4	I	Dry Creek Flat	28	13S	37E	6480
12G11	I	Lower Elkhorn	30	12S	36E	7000
12G3	I	Oxford Mountain	27	13S	37E	6800
12G10	I	Upper Elkhorn	25	12S	35E	7100

LEGEND

Numbering System (exomple)

10J7	SNOW COURSE ONLY.
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USDA SCS-PORTLAND, ORE. 1978 M7-OL-22023-5

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average 1/
MALAD RIVER						
Cliff Canyon	7200	1/31	27	7.2	--	--
Daniels Creek	6400	1/31	22	5.9	0.7	--
Dry Creek Flat	6480	1/31	29	9.0	1.3	5.3
Lower Elkhorn	7000	1/31	42	14.4	2.2	9.8*
Oxford Mountain	6800	1/31	34	10.7	1.7	6.9*
Upper Elkhorn	7100	1/31	53	18.0	2.6	12.0*

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

USDA SCS PORTLAND OREGON 1974 M7-0-22023P

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U.S. Army Engineers

U.S. Department of Agriculture
Forest Service
Agricultural Research Service
Statistical Reporting Service

U.S. Department of Commerce
NOAA, National Weather Service

U.S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

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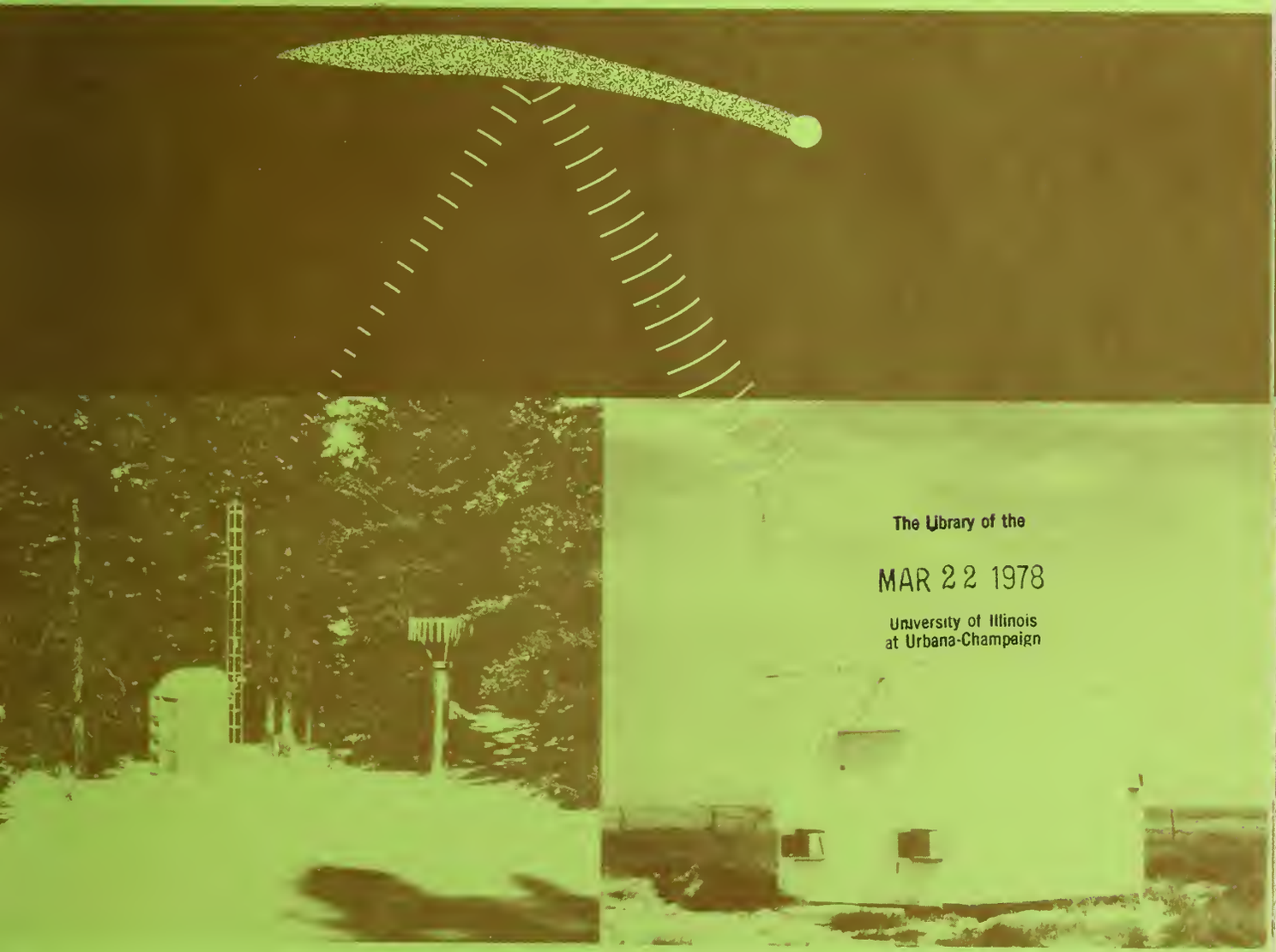
WATER SUPPLY OUTLOOK FOR IDAHO



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U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
MAR. 1, 1978

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made manthly ar semi-manthly from January 1 through June 1 in mast states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Canservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SOME OF THE DATA IN THIS PEPORT HAVE BEEN RECEIVED THROUGH THE SOIL CONSERVATION SERVICE'S NEW SNOTEL SYSTEM WHICH TRANSMITS INFORMATION VIA THE SPACE AGED METEOR BURST METHOD FROM DATA SITES TO MASTER STATIONS LIKE THESE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtoined from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P.O. Box 98, Bozeman, Mantana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.

USDA-SCS-PORTLAND OR 1977

WATER SUPPLY OUTLOOK for IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R. M. DAVIS

ADMINISTRATOR

SOIL CONSERVATION SERVICE

WASHINGTON, D.C.

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST

SOIL CONSERVATION SERVICE

BOISE, IDAHO

In Cooperation with

C. STEPHEN ALLRED

DIRECTOR

IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

JACK A. WILSON, Snow Survey Supervisor

GERALD A. BEARD, Asst. Snow Survey Supervisor

KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE

SNOW SURVEY SECTION

ROOM 345, 304 N. 8th ST.

BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL SUMMARY FOR MARCH 1, 1978

Water supplies for 1978 are forecast to be good to excellent throughout Idaho. April through September seasonal runoff is predicted to range from 90 percent of average for the Kootenai River at Leonia to 169 percent of normal for Montpelier Creek near Montpelier.

In general, snowfall during February was near to well above normal. Snowpack accumulation near March 1 varied from a low of 92 percent of normal on the Clearwater River watershed to a high of 154 percent of average on the Malad River drainage in southeastern Idaho. The exception is the Palouse drainage in northern Idaho with only 56 percent of normal snowpack.

Reservoir storage has improved greatly during the fall and winter months after the record low carryover of October, 1977. Many reservoirs are now in flood control operation. Storage at the beginning of the irrigation season is expected to be good to excellent.

Soil moisture is good to excellent at low and middle elevations and near normal under the snowpack at higher elevations.

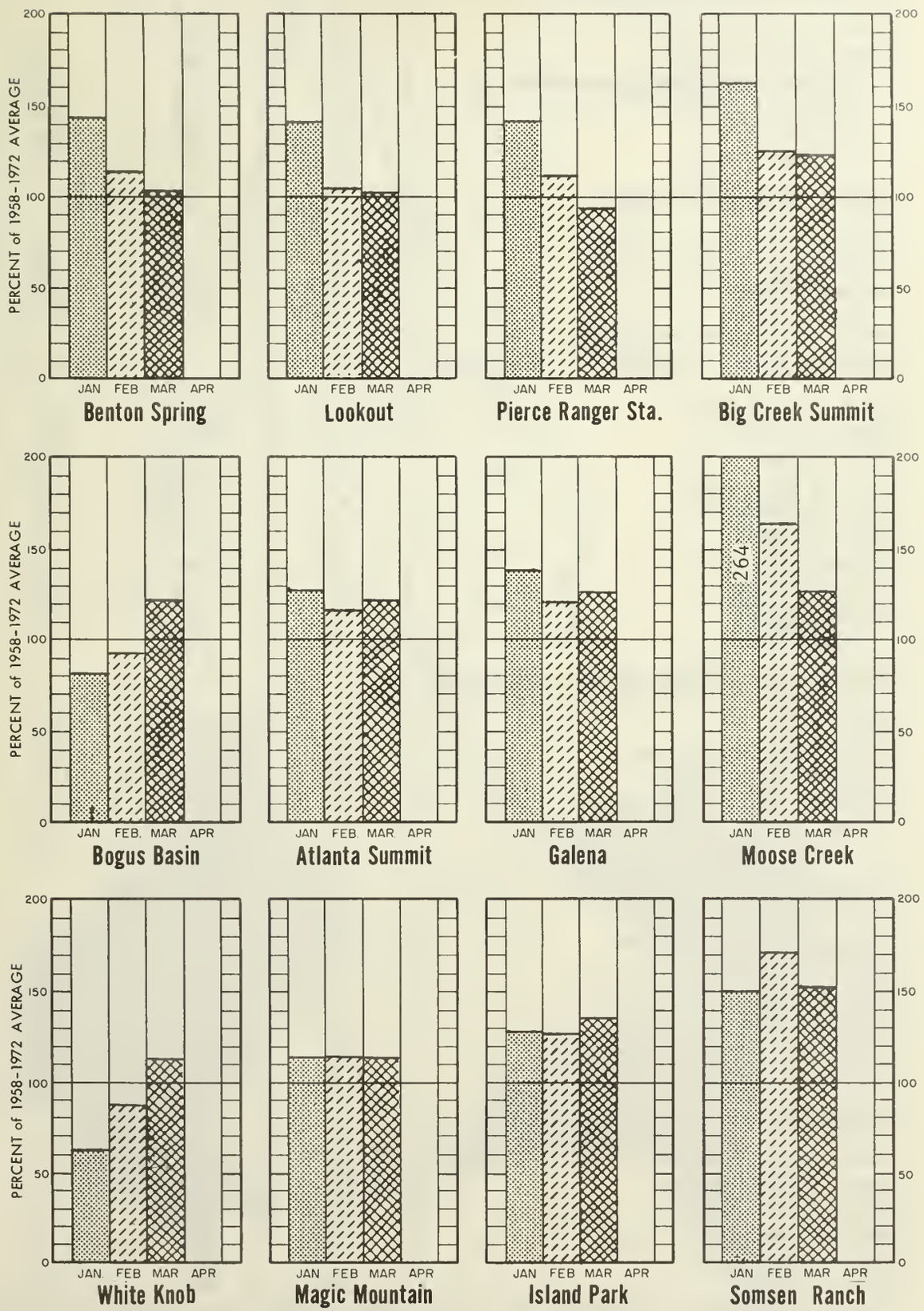
Mild temperatures continued to be felt over Idaho in February, and the precipitation was above normal for most of the State.

The precipitation over Idaho in February averaged 137 percent of normal. It ranged from 74 percent at Kellogg and 96 percent at Porthill to 183 percent at Ketchum and 184 percent at Ashton. For the 1977-1978 water year, Idaho stands at 124 percent of normal.

Temperatures averaged 2 degrees above normal in the northern and central parts of the State to 4 degrees in the southeastern part of the State.

SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1958-1972 15 Yr. Average

MARCH 1, 1978



USDA SCS-PORTLAND OREGON 1974 M7-0-22023C1-L

COMPARISON of SNOW COVER

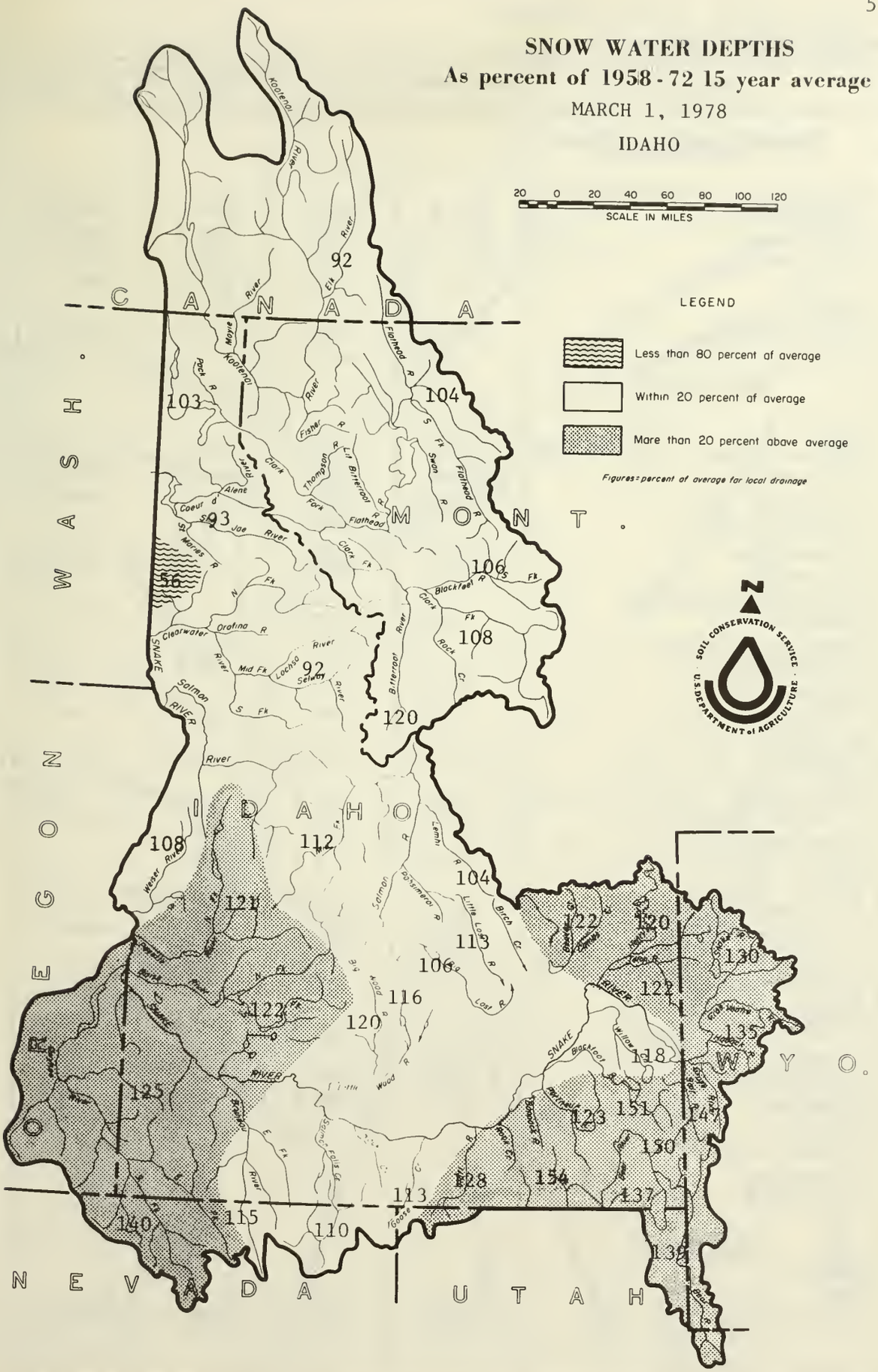
RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : LAST YEAR	1958–72 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Kootenai River	41	241	92
Pend Oreille River	91	289	107
Clark Fork River - Ab. Missoula	36	271	108
Flathead River	31	224	104
Priest River	4	370	103
Spokane River	11	286	93
LOWER SNAKE RIVER BASIN			
Palouse River	5	1042	56
Clearwater River	17	279	92
Salmon River	14	690	112
Lemhi River	6	629	104
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River	5	1329	113
Big Lost River	7	1045	106
Fish Creek	2	611	126
Little Wood River	4	993	116
Big Wood River	9	970	120
Canyon Creek	1-3	690	141
Boise River	12	765	122
Payette River	14	628	121
Weiser River	2	610	108
Mann Creek	4	603	-
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River	7	581	128
Goose-Trapper Creeks	3	506	113
Salmon Falls Creek	10	322	110
Bruneau River	5	257	115
Owyhee River	5	610	140
Jordan Creek	2	515	125
UPPER SNAKE RIVER BASIN			
Snake Basin - Wyoming	28	440	137
Camas-Beaver Creeks	2	518	122
Henrys Fork River	6	363	120
Teton River	2-11	406	122
Willow Creek	7-9	557	118
Blackfoot River	3-4	533	151
Portneuf River	4	408	123
GREAT BASIN			
Bear River - Upper	7	535	139
Bear River - Lower	22	531	134
Montpelier Creek	4-6	552	150
Mink Creek	7	547	134
Cub River	2-4	391	137
Malad River	4-6	950	154

SNOW WATER DEPTHS

As percent of 1958-72 15 year average

MARCH 1, 1978

IDAHO



RESERVOIR STORAGE (1,000 Ac. Ft.)

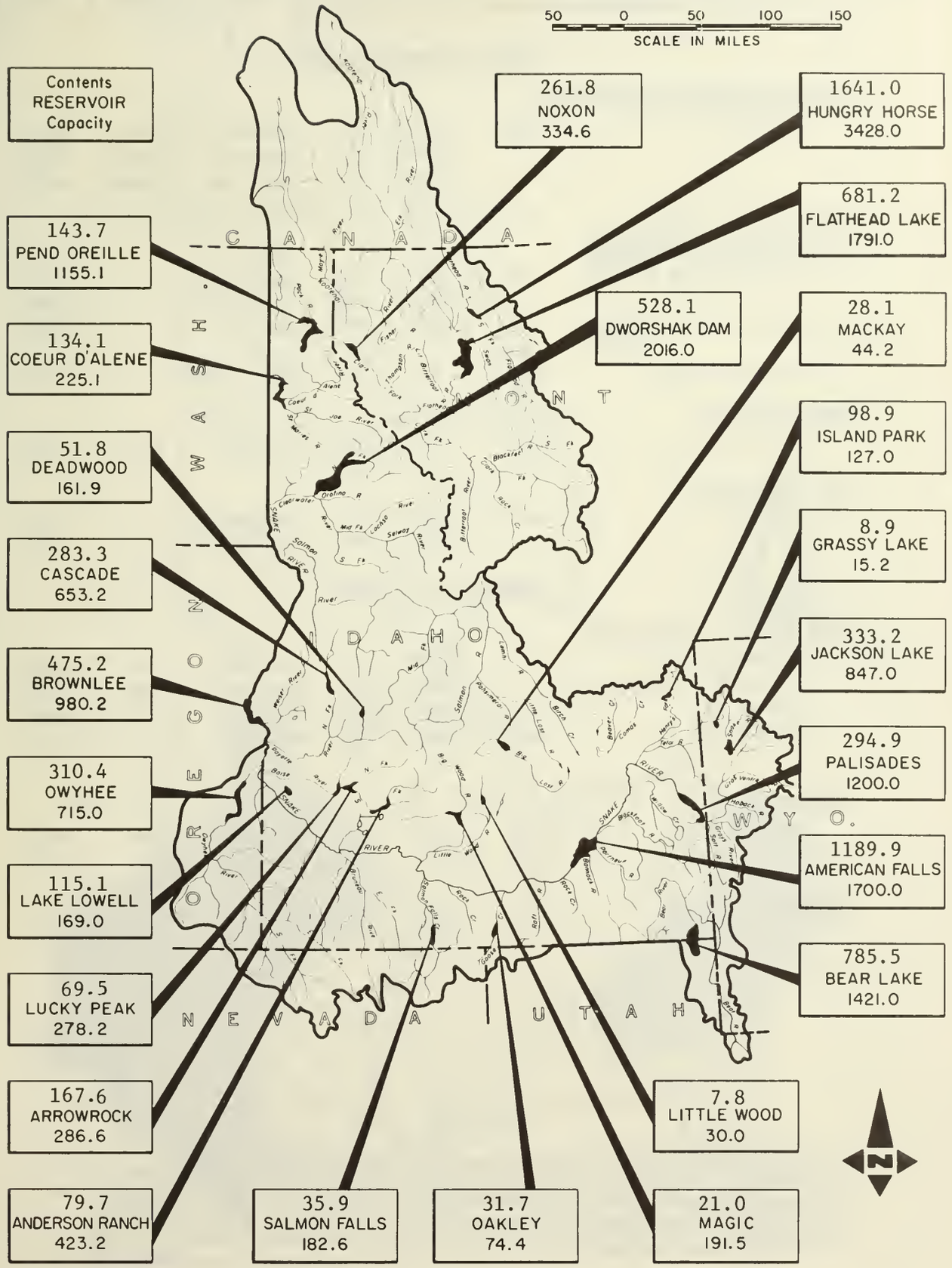
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1958–72 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	1641.0	2326.0	2329.0
Flathead	1791.0	681.2	703.8	1009.0
Pend Oreille	1155.1	143.7	230.4	457.0
Noxon	334.6	261.8	290.0	300.6
Spokane				
Coeur d'Alene	225.1	134.1	17.1	162.3
SNAKE BASIN				
Snake				
Jackson Lake	847.0	333.2	597.9	533.3
Palisades	1200.0	294.9	1083.3	809.0
American Falls	1700.0	1189.9	1103.8	789.1
Island Park	127.0	98.9	122.1	113.5
Grassy Lake	15.2	8.9	10.6	10.3
Brownlee	980.2	475.2	778.8	451.1*
Goose-Trapper Creeks				
Oakley	74.4	31.7	45.2	19.3
Salmon Falls Creek				
Salmon Falls	182.6	35.9	82.0	34.5
Big Lost				
Mackay	44.2	28.1	25.8	31.9
Big Wood				
Magic	191.5	21.0	74.0	103.5
Little Wood				
Little Wood	30.0	7.8	11.8	15.5
Fish Creek				
Carey Valley	14.4	3.0	5.5	--
Boise				
Anderson Ranch	423.2	79.7	329.7	237.6
Arrowrock	286.6	167.6	201.5	247.9
Lucky Peak	278.2	69.5	86.6	89.2
Lake Lowell (Deer Flat)	169.0	115.1	122.1	132.0
Owyhee				
Owyhee	715.0	310.4	505.0	451.2
Payette				
Cascade	653.2	283.3	357.2	325.9
Deadwood	161.9	51.8	85.8	78.8
Weiser				
Mann Creek	11.1	6.6	3.2	--
Clearwater				
Dworshak	2016.0	528.1	717.6	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	785.5	1040.3	958.3

*Period of Record.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MARCH 1, 1978



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [+]
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	8150	90	Apr-Sep	4910	9073
		7170	90	Apr-Jul	3844	7957
		5800	90	Apr-Jun	3050	6431
PEND OREILLE RIVER						
Clark Fork River						
Whitehorse Rapids	(at)	14400	102	Apr-Sep	--	14083
		13100	102	Apr-Jul	--	12852
		11300	102	Apr-Jun	--	11092
Priest River 1/	(nr)	870	99	Apr-Jul	--	879
SPOKANE RIVER						
Post Falls 2/	(at)	3000	100	Apr-Sep	1066	3008
St. Joe River						
Calder	(at)	1275	95	Apr-Sep	--	1345
		1210	95	Apr-Jul	--	1277
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 3/	(nr)	1140	133	Apr-Sep	340	858
Palisades Inflow 3/		4950	134	Apr-Sep	1031	3714
Heise 4/	(nr)	5250	133	Apr-Sep	1494	3946
Blackfoot 5/	(nr)	5400	129	Apr-Jul	--	4173
Henrys Fork						
Ashton 6/	(nr)	755	112	Apr-Sep	--	671
Rexburg 7/	(nr)	1570	115	Apr-Sep	--	1364
Teton River						
St. Anthony	(nr)	515	116	Apr-Sep	--	442

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake. 2/ Observed flow corrected for storage in Coeur d'Alene Lake 3/ Corrected for storage in Jackson Lake. 4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.

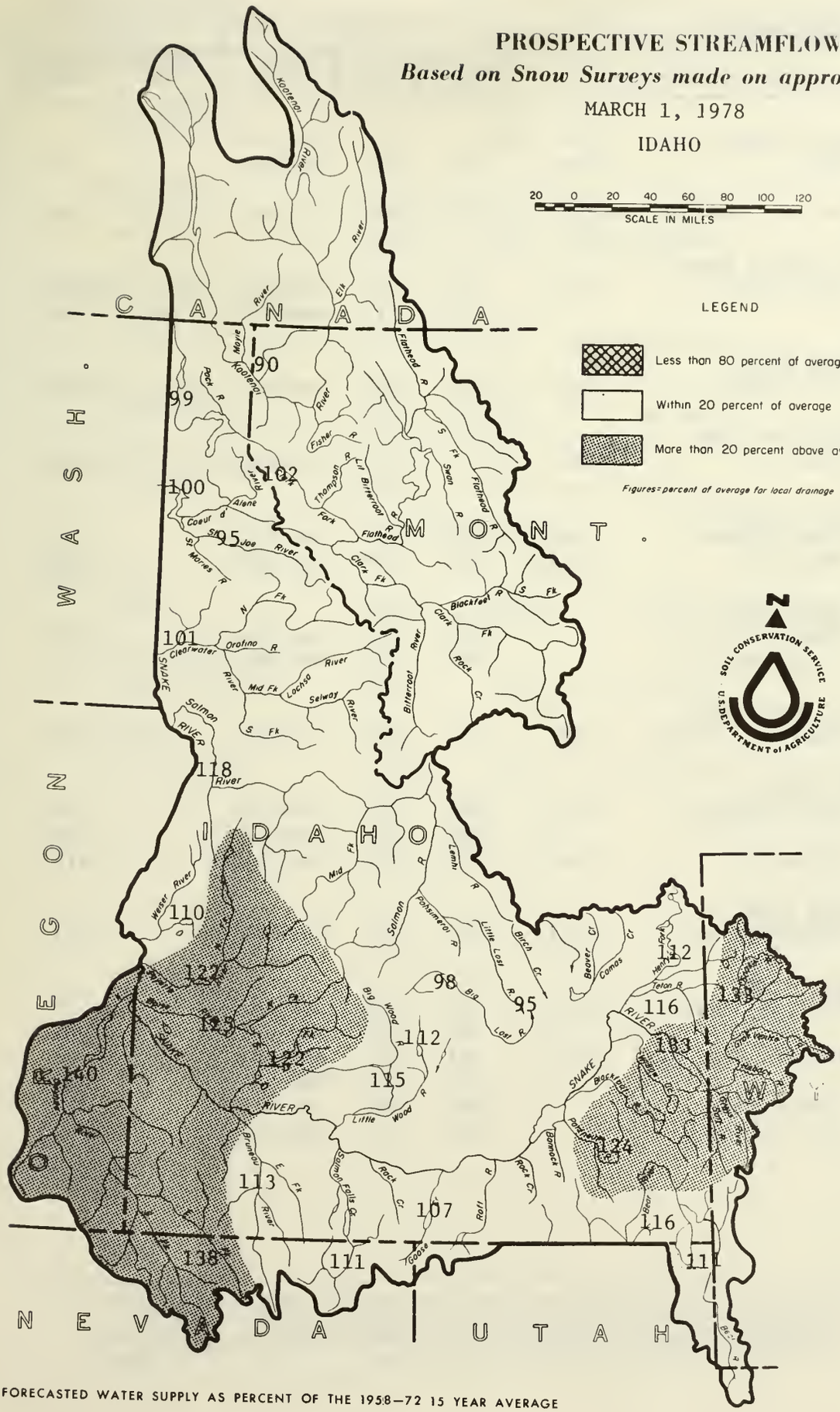
+ 1958-1972 period.

PROSPECTIVE STREAMFLOW

Based on Snow Surveys made on approximately

MARCH 1, 1978

IDAHO



FORECASTED WATER SUPPLY AS PERCENT OF THE 1958—72 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST (c) Thousand Acre Feet	THIS YEAR FORECAST (c) Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
Portneuf River						
Topaz	(at)	115	124	Mar-Sep		93
Oakley Reservoir Inflow		31.5	107	Mar-Sep		29.5
Salmon Falls Creek						
San Jacinto	(nr)	93	111	Mar-Sep	--	84
		89	111	Mar-Jul	--	80
Bruneau River						
Hot Springs	(nr)	255	113	Mar-Sep		226
Little Lost River						
Howe	(nr)	39	95	Apr-Sep		41
Big Lost River						
Howell Ranch	(at)	205	99	Apr-Sep		208
Mackay 1/	(nr)	180	98	Apr-Sep		183
Big Wood River						
Magic Reservoir		345	115	Apr-Sep		301
Inflow 2/		365	118	Mar-Jul		310
Little Wood River						
High Five Creek	(ab)	105	112	Apr-Sep		94
Boise River						
Twin Springs	(nr)	900	125	Apr-Sep		720
		835	126	Apr-Jul		665
Boise 3/	(nr)	2020	125	Apr-Sep		1612
South Fork						
Anderson Dam 4/	(at)	735	122	Apr-Sep		603
Owyhee River						
Gold Cr., Nev. 5/	(nr)	25	138	Apr-Jul		18
		30	130	Mar-Jul		23
Owyhee, Nev. 5/	(nr)	83	122	Apr-Jul		68
		95	117	Mar-Jul		81
Lake Owyhee		465	140	Apr-Sep		332
net inflow 6/		582	135	Mar-Jul		431

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir 2/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 3/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 4/ Corrected for storage in Anderson Ranch Reservoir. 5/ Corrected for storage in Wild Horse Reservoir. 6/ From U.S.B.R. records of inflow. + 1958-1972 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST (c) Thousand Acre Feet	THIS YEAR FORECAST (c) Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
Payette River						
Horseshoe Bend 1/	(nr)	2260	122	Apr-Sep		1850
North Fork						
Cascade 3/	(at)	675	120	Apr-Sep		562
Banks 3/	(nr)	875	120	Apr-Sep		730
Weiser River						
Weiser ab. Crane Creek 4/		560	110	Mar-Sep		511
Salmon River						
Whitebird	(at)	8200	118	Apr-Sep		6959
Clearwater River						
Spalding	(at)	8730	101	Apr-Sep		8605
GREAT BASIN						
BEAR RIVER						
Harer	(at)	330	111	Apr-Sep	35	297
Montpelier Creek						
Montpelier	(nr)	21	169	Apr-Sep		12.4
Cub River						
Preston	(nr)	58	116	Apr-Sep	--	50.0

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4 Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth. + 1958-1972 period.

USDA SCS PORTLAND OREGON 1974 M7-0-220235

VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

DRAINAGE DIVISIONS	Winter February 1978		Fall - Winter Nov. 77 - Feb. 78	
	Observed	Departure 2/	Observed	Departure 2/
Kootenai, Canada & U.S.	1.29	-0.66	12.15	0.50
Flathead	1.12	-0.62	10.21	1.01
Clark Fork	0.95	-0.32	8.11	1.33
Pend Oreille-Spokane	2.01	-0.83	15.85	0.83
Upper Snake	2.83	0.98	12.77	4.18
Snake River Plain	1.13	0.35	5.19	0.89
Salmon-Payette-Boise	2.46	0.71	13.00	2.94
Clearwater	2.94	0.07	18.79	3.87
Owyhee-Malheur	1.47	0.62	6.75	1.93

1/ Preliminary analysis and data by the National Weather Service and Meteorological Service of Canada.

2/ Departure from 15-year (1958-72) drainage division average.

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average b/
UPPER COLUMBIA RIVER BASIN						
KOOTENAI RIVER						
#Bear Mountain	5400	2/22	119	49.1	--	59.1*
Halverson Creek	4850	2/22	104	39.0	--	44.3*
PEND OREILLE - PRIEST RIVER						
Bear Mountain	5400	2/22	119	49.1	--	59.1*
Benton Meadow	2370	2/27	21	6.8	1.6	6.1
Benton Spring	4900	2/27	52	18.0	4.1	17.4
#Mosquito Ridge (A)	5110	3/2	106	38.9	13.3	34.7*
Schweitzer Bowl	4500	2/27	71	27.1	8.2	27.8*
Schweitzer Ridge	6100	2/27	106	42.2	11.5	39.9*
HAYDEN LAKE						
Chilco Ridge	3650	2/23	18	6.6	1.4	--
Conie Ridge	3900	2/23	23	8.4	1.6	--
Corner Creek	3150	2/23	20	6.2	3.2	--
Sage Creek Saddle	4100	2/23	46	16.6	5.2	--
SPOKANE RIVER						
Above Burke	4100	2/27	58	19.1	8.8	--
Copper Ridge	4800	2/22	57	20.3	7.8	25.7
#Forty-nine Meadows	4880	3/1	77	21.6	6.6	28.4*
Fourth of July Summit	3200	2/22	23	8.0	2.7	7.3*
Granite Peak	6000	3/1	109	32.2	10.2	37.7*
Kellogg Peak (A)	5560	3/2	91	32.3	9.2	--
Lookout	5120	2/27	90	33.0	10.0	32.4
#Lost Lake	6000	3/1	134	42.2	15.1	51.3*
Lower Sands Creek	3400	2/22	42	14.6	6.2	17.5
Mosquito Ridge (A)	5110	3/2	106	38.9	13.3	34.7*
Roland Summit (A)	5200	3/2	85	29.6	10.0	31.3*
Sherwin	3200	2/24	28	8.8	3.5	13.8*
Sunset (A)	5600	3/2	117	41.6	16.4	33.7*
LOWER SNAKE RIVER BASIN						
PALOUSE RIVER						
Crumarine Creek	3340	2/28	13	3.9	0.0	7.8*
East Twin	4050	2/28	16	5.0	0.4	11.1
Howard Creek	3500	2/24	5	1.6	0.0	4.5*
Moscow Mountain	4400	2/28	41	12.5	2.2	15.3
West Twin	4250	2/28	14	4.1	0.0	9.4

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

USDA SCS PORTLAND, OREGON 1974 M7-0-22023P

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Average [b]
CLEARWATER RIVER							
Breezy Saddle		5000	3/1	80	23.5	7.7	--
Cayuse Airstrip		3700	2/28	31	8.9	4.7	11.7
Cottonwood Butte		5140	2/24	39	11.3	2.0	--
Crater Meadows		6100	2/28	104	33.3	16.3	40.9*
Crooked Fork		3600	2/27	44	13.8	4.9	12.9*
Elk Butte		5550	3/1	92	27.9	11.8	35.0*
Fish Lake Airstrip		5000	2/28	95	28.7	12.4	37.3
Forty-nine Meadows		4880	3/1	77	21.6	6.6	28.4*
Goat Lake		6600	2/28	136	43.7	14.5	43.8*
#Granite Peak		6000	3/1	109	32.2	10.2	37.7*
Hemlock Butte		5500	2/28	120	37.9	15.9	42.8*
#Hoodoo Basin	Mont.	6000	3/3	122	46.7	14.8	46.1
#Hoodoo Creek	Mont.	5900	3/3	116	43.4	12.2	43.2
Lolo Pass		5240	2/27	86	31.0	8.3	28.5
Lost Lake		6000	3/1	134	42.2	15.1	51.3*
Lower Snowhaven		5300	2/24	59	17.9	3.1	--
#Nez Perce Pass	Mont.	6575	3/3	57	19.7	7.0	14.3
Pierce Ranger Station		3170	3/1	30	9.6	4.6	10.3
Savage Pass		6170	2/27	82	27.6	8.0	24.3
Shanghai Summit		4600	2/28	74	21.4	8.3	24.5*
Upper Snowhaven		5600	2/24	50	17.6	2.8	--
SALMON RIVER							
Big Creek Summit		6600	2/26	110	38.6	4.6	31.4
Borah (A)		8250	3/1	24	8.1	0.0	--
#Boulder Creek		5500	2/27	69	22.6	3.7	21.8*
Brundage Mountain		7560	2/27	129	47.5	5.9	42.2*
#Deadwood Summit		7000	2/28	128	47.1	5.5	40.4*
Doublespring Pass (A)		8400	3/1	36	12.1	0.3	--
#Galena Summit		8795	3/1	72	25.0	2.8	20.6
#Gibbons Pass	Mont.	7100	2/23	70	25.1	5.2	20.5
Leatherman Pass		9800	3/1	62	23.2	2.6	--
#Lemhi Pass	Mont.	7480	3/3	39	10.8	2.5	7.9
#Lemhi Ridge	Mont.	8100	3/3	46	13.8	2.9	8.9
Mill Creek Summit		8870	3/1	59	21.3	2.6	20.3*
Moose Creek		6200	2/28	63	19.2	4.6	15.2
Morgan Creek		7580	3/1	45	15.1	2.0	12.6*
Redfish Lake Flat		6570	2/27	46	13.6	1.6	8.7*
#Rock Flat Summit		5200	2/27	66	19.3	3.4	16.2
#Secesh Summit		6520	2/27	97	35.1	5.6	--
#Squaw Meadow		5800	2/27	99	35.7	5.7	31.1*
Twin Peaks (A)		10300	3/1	75	27.1	3.7	--
Vienna Mine		8960	2/28	99	37.8	5.3	32.2
Williams Creek Summit		7800	2/27	48	14.4	2.5	11.0

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	PAST RECORD Water Content (inches) Average 1/
Lemhi River						
Above Gilmore	8200	3/1	33	9.1	1.0	8.6*
Aspen-Hall Pass (A)	8110	3/1	37	9.7	2.4	7.7*
Copes Camp	7500	3/1	31	7.5	1.3	6.6*
Hall Creek	7560	3/1	20	3.8	0.3	4.8*
Meadow Lake	9100	3/1	49	16.7	2.6	17.1*
Schwartz Lake	8500	3/1	41	11.1	1.6	11.0*
MIDDLE SNAKE RIVER BASIN - NORTHSIDE						
LITTLE LOST RIVER						
Fairview Guard Station	6750	2/24	22	5.8	0.0	4.5
Lost Garfield	6600	2/24	26	6.6	0.0	3.8
Moonshine	7450	2/24	40	11.0	1.1	9.8
Sawmill Canyon	6900	2/24	35	8.6	1.1	7.4
Wet Creek Summit	7600	2/23	35	9.2	0.9	10.9
BIG LOST RIVER						
Bear Canyon	7920	3/4	52	15.2	1.6	16.3
Copper Basin	7650	3/4	35	8.8	0.0	8.6
Iron Bog	7650	2/28	49	14.9	1.2	13.8*
Leadbelt	6800	2/28	40	11.0	1.4	9.0*
#Leatherman Pass	9800	3/1	62	23.2	2.6	--
Lost-Wood Divide	7900	3/3	63	22.6	2.6	20.5
Stickney Mill	7500	3/3	31	7.9	0.9	8.4
White Knob	7700	2/27	33	9.5	0.9	8.4*
FISH CREEK						
Iron Mine Creek	6370	3/3	39	12.0	2.3	9.7
Telfer Ranch	6000	3/3	33	10.0	1.3	7.7
LITTLE WOOD RIVER						
#Bear Canyon	7920	3/4	52	15.2	1.6	16.3
Garfield Ranger Station	6554	2/28	44	13.7	1.0	10.0
Muldoon	6300	2/28	31	9.4	0.9	7.8
Swede Peak	7650	2/28	60	19.4	2.3	15.4
BIG WOOD RIVER						
Camas Creeks Divide	5720	3/3	34	12.2	1.5	--
#Couch Summit	6950	2/26	66	20.3	2.1	16.9*
Galena	7300	3/1	59	21.6	1.4	17.2
Galena Summit	8795	3/1	72	25.0	2.8	20.6

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

USDA-SCS PORTLAND OREGON 1974 M7-0-22023P

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average 6
Graham Ranch	6200	3/1	46	13.8	1.2	12.4
#Lost-Wood Divide	7900	3/3	63	22.6	2.6	20.5
Mascot Mine	7900	3/3	46	15.1	1.5	12.1
Mount Baldy	9000	2/27	71	22.5	2.3	18.0
Soldier Ranger Station	6100	2/26	49	15.4	0.8	11.2
#Vienna Mine	8960	2/28	99	37.8	5.3	32.2
CANYON CREEK						
Bennett Mountain	6650	3/3	56	22.0	4.4	15.5*
#Camas Creeks Divide	5720	3/3	34	12.2	1.5	--
Little Camas Flat	4950	3/3	28	9.4	0.4	--
BOISE RIVER						
Atlanta Summit	7500	2/28	106	36.8	4.3	30.2
Bad Bear	5500	2/27	47	15.9	1.9	13.1*
#Bennett Mountain	6650	3/3	56	21.9	4.4	15.5*
#Bogus Basin	6120	2/27	73	25.3	4.8	20.7
Bogus Basin Road	5360	2/27	25	8.5	1.3	5.4
#Camas Creeks Divide	5720	3/3	34	12.2	1.5	--
Couch Summit	6950	2/26	66	20.3	2.1	16.9*
Deadman Gulch	5600	2/28	51	16.7	4.0	14.0*
Graham Guard Station	5690	2/28	60	21.1	2.6	--
Jackson Peak	7000	2/28	94	33.3	5.0	27.2*
#Little Camas Flat	4950	3/3	28	9.4	0.4	--
Moores Creek Summit	6100	2/27	101	35.8	4.0	28.5
Prairie	4900	2/26	18	5.8	0.8	5.3
#Soldier Ranger Station	6100	2/26	49	15.4	0.8	11.2
Trinity Mountain	7780	2/27	117	45.2	4.5	37.8
#Vienna Mine	8960	2/28	99	37.8	5.3	32.2
PAYETTE RIVER						
#Big Creek Summit	6600	2/26	110	38.6	4.6	31.4
Bogus Basin	6120	2/27	73	25.3	4.8	20.7
#Brundage Mountain	7560	2/27	129	47.5	5.9	42.2*
Cozy Cove	5400	2/28	53	18.6	3.5	15.1
Crawford Ranger Station	4800	2/26	29	10.0	1.6	7.7
#Deadman Gulch	5600	2/28	51	16.7	4.0	14.0*
Deadwood Airstrip	5440	2/28	52	18.9	3.8	14.5
Deadwood Summit	7000	2/28	128	47.1	5.5	40.4*
High Valley Summit	5170	2/28	44	14.2	3.1	10.3*
#Jackson Peak	7000	2/28	94	33.3	5.0	27.2*
Lake Fork	6000	2/27	60	19.2	3.6	14.1*
Rock Flat Summit	5200	2/27	66	19.3	3.4	16.2
Secesh Summit	6520	2/27	97	35.1	5.6	--
Squaw Meadow	5800	2/27	99	35.7	5.7	31.1*
Tripod Summit	5200	2/28	57	20.3	3.6	15.8*

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SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME		Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average 1/
WEISER RIVER							
Boulder Creek		5500	2/27	69	22.6	3.7	21.8*
Placer Creek		6000	3/1	56	18.3	3.0	15.9*
MANN CREEK							
Mann Creek		6080	2/26	74	26.1	4.2	--
Robinson Creek Ridge		6220	2/26	59	22.1	3.3	--
Sturgill Ridge		6800	2/26	83	29.3	5.2	--
Thorson Cabin		5320	2/26	43	16.0	2.8	--
MIDDLE SNAKE RIVER BASIN - SOUTHSIDE							
RAFT RIVER							
Boy Scout Camp		7760	2/28	36	11.6	2.7	13.2*
Clear Creek Meadows	Utah	9050	2/28	64	20.9	3.9	18.2*
George Peak	Utah	9000	2/28	68	24.5	3.5	--
Howell Canyon		8000	2/28	61	22.3	3.6	22.2
One Mile Summit	Utah	7330	2/28	17	4.5	0.9	6.8*
Sheep Hollow		6200	2/28	24	7.0	2.5	5.6*
Sublett		6000	2/28	36	11.0	2.6	9.9
Summit Springs		6400	2/28	35	11.3	2.6	9.7*
GOOSE-TRAPPER CREEKS							
Badger Gulch		6660	2/28	36	11.1	2.1	10.1
Bostetter Ranger Station		7500	2/28	60	19.4	2.9	17.5
Vi Pont (A)	Utah	7670	2/28	46	15.0	4.0	12.7*
SALMON FALLS CREEK							
#Bear Creek	Nev.	7800	2/26	60	20.7	8.6	17.3
Cedar Creek		7000	2/26	30	8.9	2.5	8.8
Deadline		6900	2/26	54	19.2	3.0	19.9
#Fox Creek	Nev.	6800	2/26	38	10.7	4.8	9.3
Goat Creek	Nev.	8800	2/26	53	17.6	6.0	16.0
#Hummingbird Springs	Nev.	8945	2/26	68	22.8	7.0	19.5
Magic Mountain		6700	2/26	56	18.5	3.3	16.2
#Pole Creek R. St.	Nev.	8330	2/26	51	16.3	7.9	16.8
Shoshone Basin		5740	2/26	21	5.8	0.6	4.2
Wilson Creek		7500	2/26	41	12.2	3.7	11.4*

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USDA SCS PORTLAND OREGON 1974 M7-0-22023P

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Average (b)
BRUNEAU RIVER						
Bear Creek	Nev.	7800	2/26	60	20.7	8.6	17.3
Fox Creek	Nev.	6800	2/26	38	10.7	4.8	9.3
Hummingbird Springs	Nev.	8945	2/26	68	22.8	7.0	19.5
Pole Creek R. S.	Nev.	8330	2/26	51	16.3	7.9	16.8
#Seventy-six Creek	Nev.	7100	2/26	40	13.4	4.3	10.0*
OWYHEE RIVER						
Antelope Ridge		5900	3/3	26	8.8	0.2	6.1*
Battle Creek (A)		5700	2/28	18	5.0	0.1	2.9
#Bear Creek	Nev.	7800	2/26	60	20.7	8.6	17.3
Bull Basin (A)		5600	2/28	8	2.2	0.2	1.1*
#Fox Creek	Nev.	6800	2/26	38	10.7	4.8	9.3
Hyde Pasture (A)		5800	2/28	24	7.0	0.4	4.9
Mud Flat		5500	3/3	32	11.3	0.4	5.4
Red Canyon (A)		6650	2/28	28	8.4	2.4	5.9*
#Seventy-six Creek	Nev.	7100	2/26	40	13.4	4.3	10.0*
Silver City		6400	2/28	50	15.6	3.5	13.8
South Mountain		6340	2/25	43	15.8	2.6	11.3
Succor Creek (A)		6100	2/28	27	8.1	2.4	5.4*
Triangle (A)		5150	2/28	T	0.1	0.1	0.6
Vaught Ranch (A)		5950	2/28	24	7.0	0.1	3.3*
War Eagle (A)		7700	2/28	75	23.2	5.4	22.1*
UPPER SNAKE RIVER BASIN						
CAMAS-BEAVER CREEKS						
Camp Creek		6800	2/28	37	9.3	1.5	9.0
Kilgore		6200	2/27	43	14.0	3.0	10.1
HENRYS FORK RIVER						
Big Springs		6400	2/27	70	23.5	6.0	18.6
Grassy Lake	Wyo.	7230	2/27	119	34.9	12.4	30.1
Island Park		6315	2/27	61	20.0	5.2	14.7
Sawtell Mountain		8720	2/27	101	36.2	7.7	30.4*
Targhee Pass		7000	2/27	52	16.0	4.5	13.5*
Valley View		6500	2/27	52	17.2	4.9	15.4
White Elephant		7700	2/27	90	31.6	6.0	--
TETON RIVER						
Darby Canyon	Wyo.	8250	3/4	68	23.5	5.8	--
Freds Mountain	Wyo.	8150	3/4	84	28.8	6.8	--
Garns Mountain		8300	3/4	106	38.2	8.8	--

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SNOW

DRAINAGE BASIN and or SNOW COURSE NAME		Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average 6/
Indian Meadows	Wyo.	8240	3/4	101	33.4	9.9	--
Jackpine Creek	Wyo.	7350	3/4	77	26.0	6.0	--
McRenolds Reservoir		6800	3/4	69	22.1	6.0	--
Miles Creek	Wyo.	7300	3/4	52	17.1	4.8	--
Phillips Bench	Wyo.	8200	2/28	96	35.8	9.5	--
Pine Creek Pass		6750	3/4	59	19.4	4.4	15.4*
State Line		6650	3/4	49	14.9	2.6	12.8
Teton Pass W.S.	Wyo.	8400	2/28	88	30.8	6.9	--
WILLOW CREEK							
Aspen Grove		6600	2/28	43	11.5	3.0	10.3*
Birch Creek		6800	2/28	32	9.9	2.1	14.3*
Blue Ridge		6800	2/28	50	17.2	2.8	--
Bone		6200	2/28	29	8.5	1.2	7.5*
Brockman Station		6430	2/28	36	12.2	1.9	--
Hell Creek		7100	2/28	50	16.6	3.0	--
Mud Creek		7150	2/28	53	17.9	2.2	--
Sheep Mountain		6510	2/28	46	13.5	2.8	12.6*
Tex Creek		6700	2/28	33	9.6	2.0	8.5*
SAND CREEK							
Henry Creek		5650	2/28	27	8.6	0.0	2.4*
BLACKFOOT RIVER							
Austin Bros. Ranch		6400	2/28	38	12.7	0.5	7.9
Slug Creek Divide		7225	3/1	64	21.4	5.0	14.7*
Somsen Ranch		7000	2/28	56	18.2	3.8	12.0
Ten Mile Pass		6250	2/28	39	12.2	2.8	--
PORTNEUF RIVER							
Dempsey Creek		6280	2/26	44	15.3	3.8	10.6
Lower Pebble		5800	2/26	48	15.5	4.2	12.1*
Mink Creek		6300	2/25	46	15.2	4.9	15.0
Pebble Creek		6550	2/26	54	18.0	2.8	14.5
GREAT BASIN							
BEAR RIVER							
Emigrant Summit		7350	2/23	82	28.2	4.3	21.8*
Emigration Canyon		6500	2/23	41	13.2	2.7	9.7*

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USDA SCS PORTLAND OREGON 1974 M7-0-22023P

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
Montpelier Creek						
Giveout	6840	3/2	55	15.6	3.1	11.0*
Little Beaver	6970	3/2	60	19.8	3.2	14.0*
Lower Home Canyon	7500	3/1	56	17.3	3.6	--
Montpelier Creek	6570	2/27	44	13.5	1.2	7.5*
Upper Home Canyon	8500	3/2	79	28.4	6.4	--
Whiskey Flat	6985	3/2	44	13.2	2.0	8.9*
Mink Creek						
Christensen Ranch	5600	2/24	33	11.2	3.4	7.7
Dry Basin	7900	2/24	89	33.8	6.7	25.3*
#Emigrant Summit	7350	2/23	82	28.2	4.3	21.8*
Horseshoe Basin	8000	2/24	78	31.9	6.9	23.2*
Liberty Spring	8600	2/24	116	44.4	7.0	33.8*
Strawberry Creek	5800	2/23	38	12.4	2.1	9.6
Strawberry Mink Divide	6800	2/24	72	25.6	3.9	18.6
Cub River						
Cub River R.S.	5400	2/24	30	11.0	4.5	8.0
#Franklin Basin	8000	2/24	69	26.7	7.0	--
Willow Flat	6100	2/24	53	18.7	4.8	13.7
Worm Creek	6660	2/24	62	22.5	3.9	--
MALAD RIVER						
Cliff Canyon	7200	2/24	37	12.3	1.2	--
Daniels Creek	6400	2/24	25	7.9	0.8	--
Dry Creek Flat	6480	2/24	31	11.3	1.1	6.6
Lower Elkhorn	7000	2/24	54	19.9	1.8	12.4*
Oxford Mountain	6800	2/24	38	12.6	1.0	9.4
Upper Elkhorn	7100	2/24	68	24.4	3.4	16.0*

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Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U.S. Army Engineers

U.S. Department of Agriculture
Forest Service
Agricultural Research Service
Statistical Reporting Service

U.S. Department of Commerce
NOAA, National Weather Service

U.S. Department af the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
Natianal Park Service
Bureau af Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Waod Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

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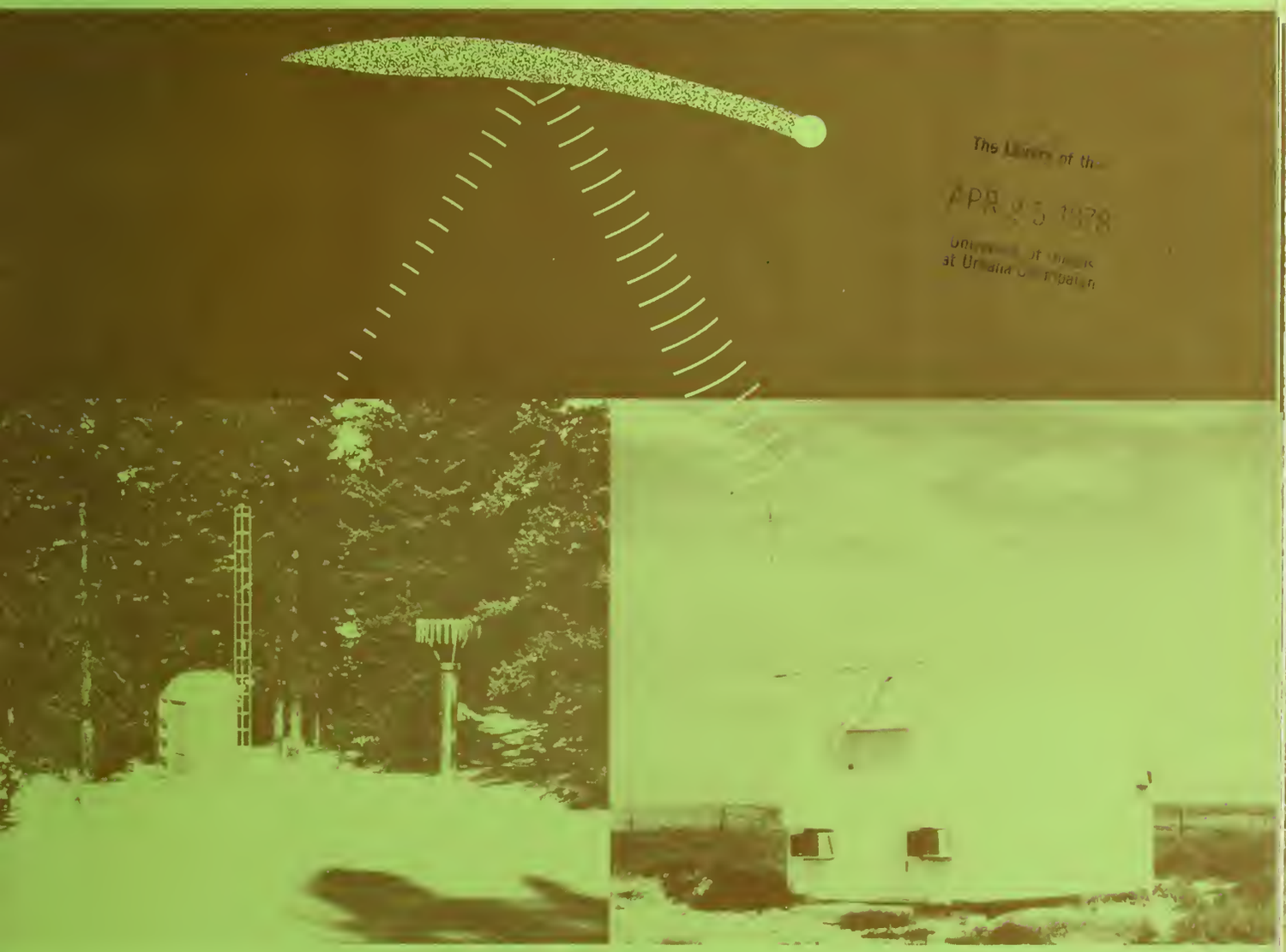
WATER SUPPLY OUTLOOK FOR IDAHO



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U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
APR. 1, 1978

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snawfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snaw is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this repart are based principally an measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runaff are measured. All forecasts assume that climatic factors during the remainder of the snaw accumulation and melt season will interact with a resultant average effect an runoff. Early season forecasts are therefore subject to a greater change than thase made on later dates.

The snaw course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total af abaut ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same lacation near the same dates each year.

Snow surveys are made monthly or semi-manthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snaw water equivalent and related data sensing devices, along with radio telemetry are expanding and will pravide a continuous recard af snow water and ather parameters at key locations.

Detailed data an snow course and soil moisture measurements are presented in state and local reparts. Other data on reservoir storage, summaries of precipitatian, current streamflaw, and sail moisture conditians at valley elevations are also included. The report for Western United States presents a braad picture of water supply outlaak conditions, including selected streamflow farecasts, summary of snaw accumulation to date, and storage in larger reservoirs.

Snow survey and sail moisture data far the period of record are published by the Soil Canservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published abaut October 1 of each year.

COVER PHOTO: SOME OF THE DATA IN THIS REPORT HAVE BEEN RECEIVED THROUGH THE SOIL CONSERVATION SERVICE'S NEW SNOTEL SYSTEM WHICH TRANSMITS INFORMATION VIA THE SPACE AGED METEOR BURST METHOD FROM DATA SITES TO MASTER STATIONS LIKE THESE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snaw survey dates from January 1 thraugh June 1 in cooperation with state water administrators, agricultural experiment statians and athers. Copies of the reports for Western United States and all state reparts may be obtained from Sail Canservatian Service, West Technical Service Center, Raam 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be abtained from state affices af the Soil Conservatian Service in the fallawing states:

STATE	ADDRESS
Alaska	Roam 129, 2221 East Northern Lights Blvd., Ancharage, Alaska 99504
Arizana	Raam 3008, Federal Building, Phaenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Calorado 80217
Idaho	Room 345, 304 N. 8th. St., Baise, Idaho 83702
Montana	P.O. Box 98, Bazeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Caurt Hause, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.

USDA-SCS-PORTLAND OR 1977

WATER SUPPLY OUTLOOK for IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R. M. DAVIS

ADMINISTRATOR

SOIL CONSERVATION SERVICE

WASHINGTON, D.C.

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST

SOIL CONSERVATION SERVICE

BOISE, IDAHO

In Cooperation with

C. STEPHEN ALLRED

DIRECTOR

IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

JACK A. WILSON, Snow Survey Supervisor

GERALD A. BEARD, Asst. Snow Survey Supervisor

KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE

SNOW SURVEY SECTION

ROOM 345, 304 N. 8th ST.

BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL SUMMARY FOR APRIL 1, 1978

Water supplies for irrigation for the 1978 season is forecast to be generally adequate throughout Idaho.

Seasonal streamflow forecasts vary from a low of 82 percent of average for Clearwater River at Spalding to 153 percent of normal for Montpelier Creek near Montpelier.

Water shortages may occur on some smaller low elevation streams, such as the Palouse, with no storage facilities and a well below normal snowpack.

Snowfall during March was below average throughout the State. Normally, maximum accumulation occurs near the first of April; however, in 1978 the maximum was near the first of March on many snow courses. Accumulated snow water content varies from a low of 23 percent of average on the Palouse drainage to 131 percent of normal on the Montpelier Creek watershed.

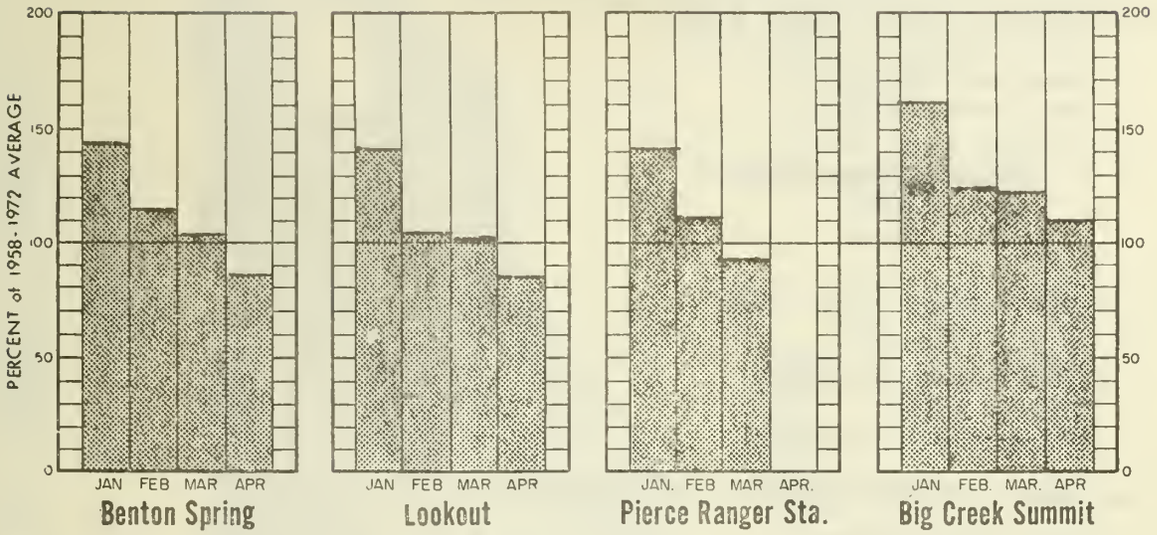
Valley precipitation averaged below normal for March while temperatures averaged well above normal. Rainfall varied from 42 percent of average at Porthill and 43 percent at Ketchum to 142 percent at Boise and all the way up to 212 percent at Twin Falls.

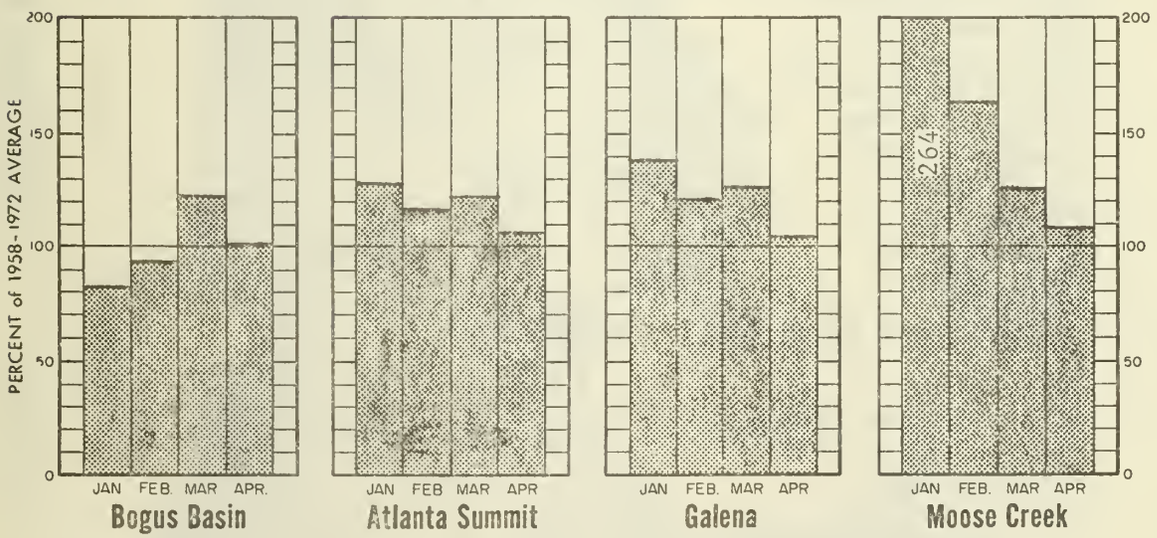
Temperatures average 5° F. above normal in northern and central Idaho to over 7° F. in the southern and southeastern portion of the State. The warm temperatures resulted in considerable low and middle elevation snow melt and increased the soil moisture situation considerably.

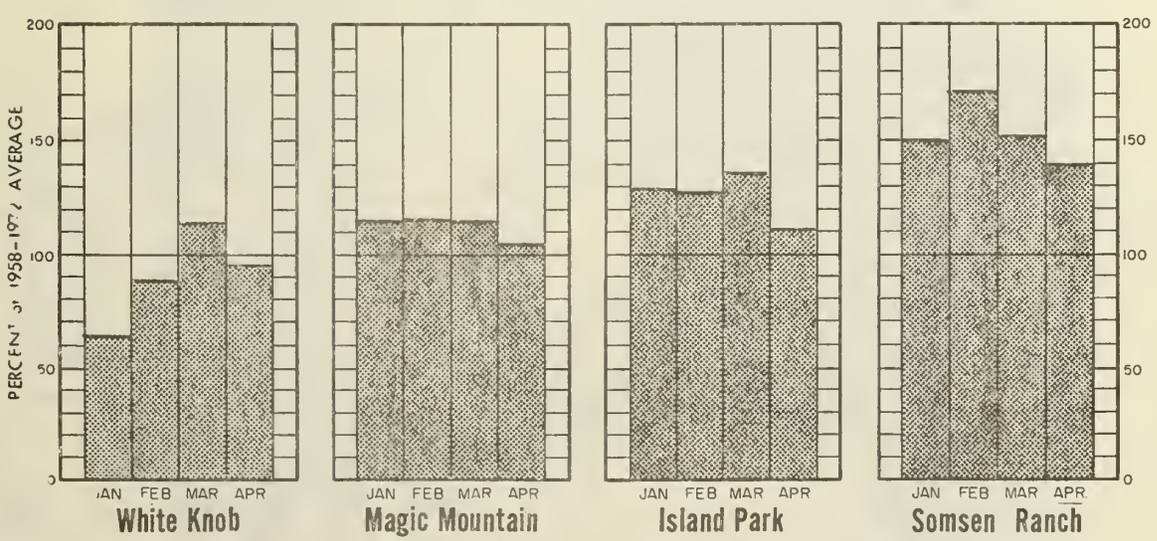
Runoff during March was near median with reservoir storage increasing only moderately. Though storage is below average, all major reservoirs are expected to fill by the beginning of the irrigation season if a normal spring develops.

SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1958-1972 15 Yr. Average

APRIL 1, 1978







COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : LAST YEAR	1958–72 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Kootenai River	43	144	77
Pend Oreille River	94	158	92
Clark Fork River	36	155	91
Flathead River	31	143	92
Priest River	4	190	87
Spokane River	15	159	72
LOWER SNAKE RIVER BASIN			
Palouse River	5	75	23
Clearwater River	20	167	81
Salmon River	22	282	97
Lemhi River	6	175	81
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River	5	388	75
Big Lost River	7	470	91
Fish Creek	2	607	101
Little Wood River	4	700	96
Big Wood River	10	534	109
Canyon Creek	1	365	142
Boise River	15	403	109
Payette River	15	307	102
Weiser River	5	273	77
Mann Creek	4	300	
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River	7-8	201	99
Goose-Trapper Creeks	3	233	103
Salmon Falls Creek	9	204	100
Bruneau River	5	193	102
Owyhee River	5	231	93
Jordan Creek	3	209	90
UPPER SNAKE RIVER BASIN			
Snake Basin - Wyoming	30	291	124
Camas-Beaver Creeks	3	372	104
Henrys Fork River	6-7	266	107
Teton River	2-11	231	107
Willow Creek	5-9	291	88
Blackfoot River	3	263	110
Portneuf River	4	244	98
GREAT BASIN			
Bear River - Upper	10	261	121
Bear River - Lower	21	248	112
Montpelier Creek	4-6	327	131
Mink Creek	7	264	118
Cub River	3-4	216	106
Malad River	4-6	334	115

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SNOW WATER DEPTHS
As percent of 1958-72 15 year average

APRIL 1, 1978
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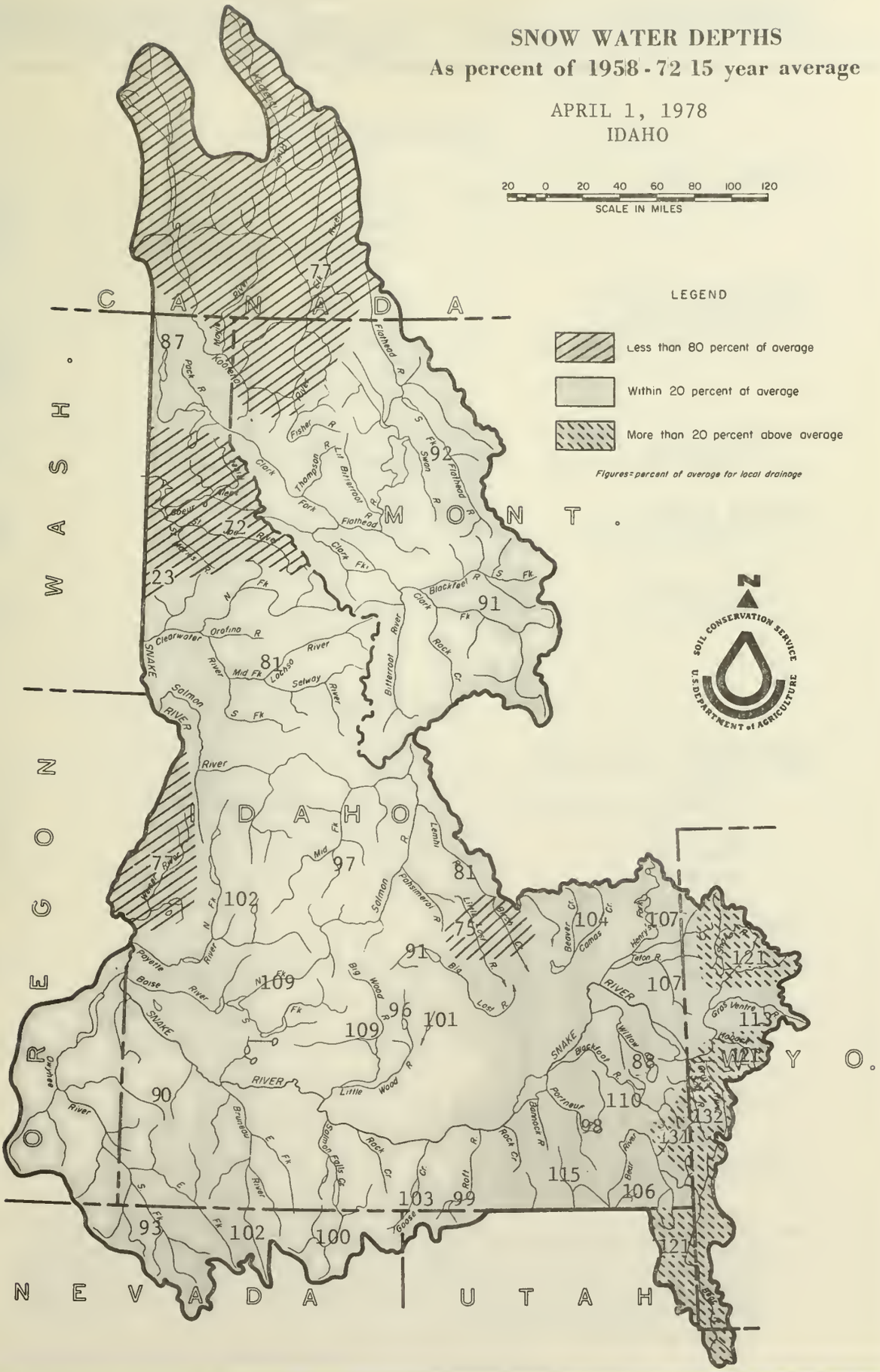

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [+]
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	7600	84	Apr-Sep		9073
		6680	84	Apr-Jul		7957
		5400	84	Apr-Jun		6431
PEND OREILLE RIVER						
Clark Fork River						
Whitehorse Rapids	(at)	12900	92	Apr-Sep		14336
		11800	92	Apr-Jul		13086
		10200	92	Apr-Jun		11325
Priest River						
Priest River 1/*	(at)	790	90	Apr-Jul		879
SPOKANE RIVER						
Post Falls 2/	(at)	2750	91	Apr-Sep		3008
St. Joe River						
Calder	(at)	1225	91	Apr-Sep		1345
		1170	92	Apr-Jul		1277
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 3/	(at)	1080	126	Apr-Sep		858
Palisades Inflow 3/		4775	130	Apr-Sep		3714
Heise 4/	(nr)	4970	126	Apr-Sep		3946
Blackfoot 5/	(nr)	5000	120	Apr-Jul		4173
Weiser*	(at)	6610	101	Apr-Sep		6524
Henrys Fork						
Ashton 6/	(nr)	740	110	Apr-Sep		671
Rexburg 7/	(nr)	1500	110	Apr-Sep		1364
Teton River						
St. Anthony	(nr)	485	110	Apr-Sep		442
Portneuf River						
Topaz	(at)	110	118	Mar-Sep		93
Oakley Reservoir Inflow		30.5	103	Mar-Sep		29.5

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake. 2/ Observed flow corrected for storage in Coeur d'Alene Lake 3/ Corrected for storage in Jackson Lake. 4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg. [+] 1958-1972 period.

*National Weather Service forecast.

PROSPECTIVE STREAMFLOW

Based on Snow Surveys made on approximately

APRIL 1, 1978

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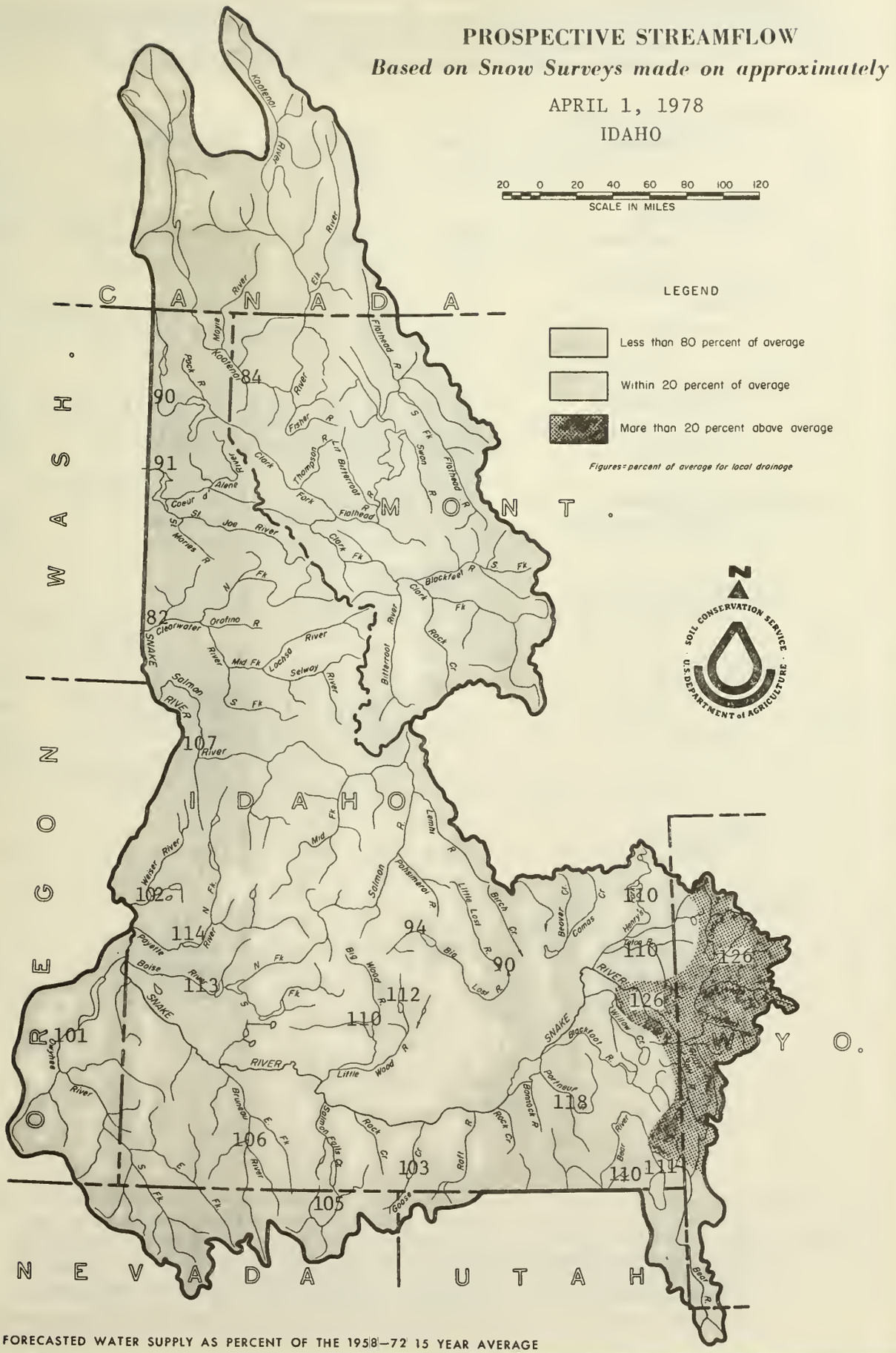

FORECASTED WATER SUPPLY AS PERCENT OF THE 1958—72 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [+]
Salmon Falls Creek						
San Jacinto	(nr)	88	105	Mar-Sep		84
		84	105	Mar-Jul		80
Bruneau River						
Hot Springs	(nr)	240	106	Mar-Sep		226
Little Lost River						
Howe	(nr)	37	90	Apr-Sep		41
Wet Creek	(bl)	35	94	Apr-Sep		37
Big Lost River						
Howell Ranch	(at)	195	94	Apr-Sep		208
		140	96	Apr-Jun		146
Mackay 1/	(nr)	165	90	Apr-Sep		183
Big Wood River						
Magic Reservoir		330	110	Apr-Sep		301
Inflow 2/		345	111	Mar-Jul		310
Little Wood River						
High Five Creek	(ab)	105	112	Apr-Sep		94
Boise River						
Twin Springs	(nr)	815	113	Apr-Sep		720
		760	114	Apr-Jul		665
Boise 3/*	(nr)	1825	113	Apr-Sep		1612
		1525	114	Apr-Jun		1340
		1675	113	Apr-Jul		1483
South Fork						
Anderson Dam 4/	(at)	680	113	Apr-Sep		603
Owyhee River						
Gold Cr., Nev. 5/	(nr)	20	111	Apr-Jul		18
Owyhee, Nev. 5/	(nr)	62	91	Apr-Jul		68
Lake Owyhee		336	101	Apr-Sep		332
net inflow 6/		311	101	Apr-Jul		309

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir 2/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 3/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 4/ Corrected for storage in Anderson Ranch Reservoir. 5/ Corrected for storage in Wild Horse Reservoir. 6/ From U.S.B.R. records of inflow. [+] 1958-1972 period.

*Coordinated forecast by Soil Conservation Service, National Weather Service, Corps of Engineers and U.S. Bureau of Reclamation.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST (c) Thousand Acre Feet	THIS YEAR FORECAST (c) Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
Payette River						
Horseshoe Bend 1/	(nr)	2100	114	Apr-Sep		1850
Banks 2/	(nr)	1135	114	Apr-Jul		993
North Fork						
Cascade 3/	(at)	640	114	Apr-Sep		562
Banks 3/	(nr)	830	114	Apr-Sep		730
Weiser River						
Weiser ab. Crane Creek 4/		530	102	Mar-Sep		511
Salmon River						
Whitebird*	(at)	7470	107	Apr-Sep		6959
Clearwater River						
Spalding*	(at)	7050	82	Apr-Sep		8605
GREAT BASIN						
BEAR RIVER						
Harer	(at)	330	111	Apr-Sep		297
Montpelier Creek						
Montpelier	(nr)	19	153	Apr-Sep		12.4
Cub River						
Preston	(nr)	55	110	Apr-Sep		50

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4/ Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth. + 1958-1972 period.

*National Weather Service forecast.

USDA-SCS PORTLAND OREGON 1974

RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1958-72 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	1605.0	2186.0	2157.0
Flathead	1791.0	695.5	611.4	794.5
Pend Oreille	1155.1	259.4	646.3	477.1
Noxon	334.6	255.0	114.3	198.5
Spokane				
Coeur d'Alene	225.1	277.8	43.7	174.0
SNAKE BASIN				
Snake				
Jackson Lake	847.0	325.8	615.3	517.0
Palisades	1200.0	285.8	1165.8	794.4
American Falls	1700.0	1381.1	1122.9	998.2
Island Park	127.0	104.9	132.5	123.7
Grassy Lake	15.2	9.3	10.8	10.5
Brownlee	980.2	402.0	719.4	324.4*
Goose-Trapper Creeks				
Oakley	74.4	36.0	47.4	22.9
Salmon Falls Creek				
Salmon Falls	182.6	47.7	83.2	42.6
Big Lost				
Mackay	44.2	31.4	29.8	32.1
Big Wood				
Magic	191.5	51.0	80.0	115.1
Little Wood				
Little Wood	30.0	13.6	14.5	16.7
Fish Creek				
Carey Valley	13.0	6.6	6.2	--
Boise				
Anderson Ranch	423.2	111.2	330.9	229.9
Arrowrock	286.6	277.9	84.4	231.5
Lucky Peak	278.2	92.6	240.1	119.2
Lake Lowell (Deer Flat)	169.0	147.5	120.1	143.3
Owyhee				
Owyhee	715.0	549.9	523.1	509.2
Payette				
Cascade	653.2	316.2	363.9	304.9
Deadwood	161.9	59.5	89.2	84.6
Weiser				
Mann Creek	11.1	9.8	3.6	--
Clearwater				
Dworshak	2016.0	407.0	714.0	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	801.6	1058.3	974.9

*Period of Record

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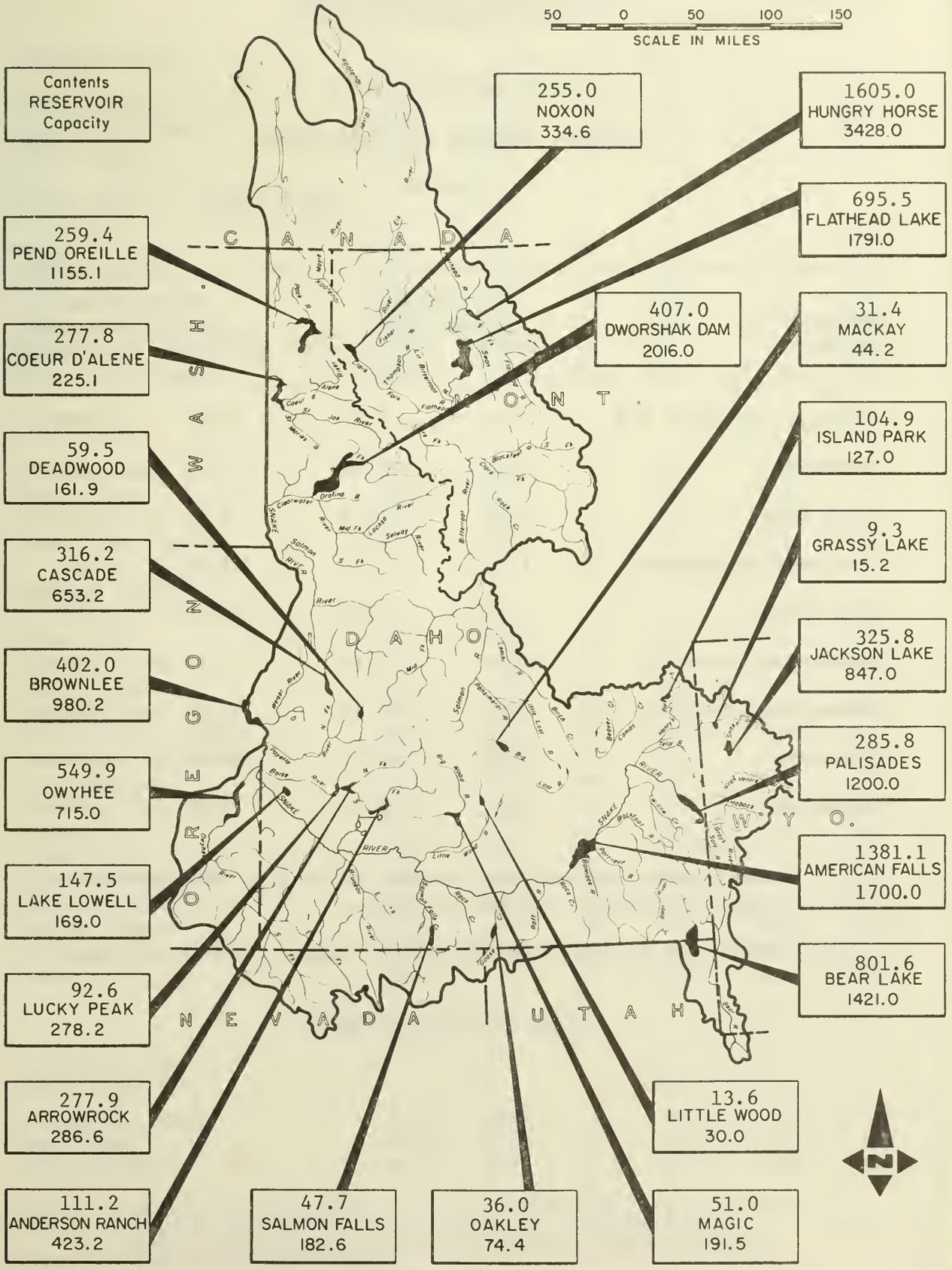
RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

APRIL 1, 1978



VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

DRAINAGE DIVISIONS	Winter March 1978		Fall - Winter Nov. 77 - Mar. 78	
	Observed	Departure 2/	Observed	Departure 2/
Kootenai, Canada & U.S.	1.69	-0.05	13.82	0.43
Flathead	0.91	-0.62	11.12	0.39
Clark Fork	0.74	-0.48	8.85	0.85
Pend Oreille-Spokane	1.27	-1.26	17.28	-0.27
Upper Snake	1.06	-0.46	13.89	3.78
Snake River Plain	0.97	0.19	6.11	1.03
Salmon-Payette-Boise	1.13	-0.60	14.27	2.48
Clearwater	2.25	-0.71	21.01	3.13
Owyhee-Malheur	1.07	0.22	7.81	2.14

1/ Preliminary analysis and data by the National Weather Service and Meterological Service of Canada.

2/ Departure from 15-year (1958-72) drainage division average.

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average (b)
UPPER COLUMBIA RIVER BASIN						
KOOTENAI RIVER						
#Bear Mountain	5400	3/29	108	47.1	30.5	65.7*
Halverson Creek	4850	3/29	91	40.8	26.5	50.7*
Smith Creek	4800	3/31	89	37.6	25.1	49.1
PEND OREILLE - PRIEST RIVER						
Bear Mountain	5400	3/29	108	47.1	30.5	65.7*
Benton Meadow	2370	3/28	4	1.5	0.0	3.4
Benton Spring	4900	3/28	39	16.7	7.8	19.4
#Mosquito Ridge	5110	3/27	78	33.2	19.6	40.3
Schweitzer Bowl	4500	3/30	51	23.1	17.8	31.7*
Schweitzer Ridge	6100	3/30	102	48.2	21.4	48.3*
HAYDEN LAKE						
Chilco Ridge	3650	3/31	0	0.0	2.6	--
Conie Ridge	3900	3/31	1	0.4	3.8	--
Corner Creek	3150	3/31	7	2.4	5.2	--
Sage Creek Saddle	4100	3/31	29	12.0	10.2	--
SPOKANE RIVER						
Above Burke	4100	3/29	47	18.5	15.3	25.6*
Above Roland	4350	3/27	70	26.8	15.0	35.8*
Below Roland	3770	3/27	25	11.6	5.1	17.4*
Copper Ridge	4800	3/30	35	16.0	14.6	30.1
#Forty-nine Meadows	4880	3/31	54	19.8	13.6	34.9
Fourth of July Summit	3200	3/30	0	0.0	6.0	7.8
Granite Peak	6000	3/31	94	34.4	19.8	47.5*
Kellogg Peak	5560	3/27	58	24.8	15.2	34.7*
Lookout	5120	3/30	74	32.2	18.6	38.1
#Lost Lake	6000	3/31	113	44.3	25.2	62.1
Lower Sands Creek	3400	3/30	38	16.2	12.1	20.7
Mosquito Ridge	5110	3/27	78	33.2	19.6	40.3
Roland Summit	5200	3/27	82	36.6	16.0	39.2*
Sherwin	3200	3/27	18	6.6	6.9	13.8*
Sunset	5600	3/27	74	30.5	18.0	39.3*
LOWER SNAKE RIVER BASIN						
PALOUSE RIVER						
Crumarine Creek	3340	3/28	0	0.0	0.0	4.1*
East Twin	4050	3/28	0	0.0	3.2	9.6
Howard Creek	3500	3/27	0	0.0	0.0	1.4

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

USDA SCS PORTLAND OREGON 1974 M7-0-22023P

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME		Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average 6
Moscow Mountain		4400	3/28	27	9.7	7.2	17.7
West Twin		4250	3/27	0	0.0	2.6	8.7
CLEARWATER RIVER							
Breezy Saddle		5000	3/31	57	21.7	15.5	--
Buck Meadows		5650	3/29	69	25.9	15.7	29.7*
Cayuse Airstrip		3700	3/29	6	2.0	5.3	9.6
Coolwater Mountain		6200	3/29	93	33.3	19.6	32.9*
Crater Meadows		6100	3/27	94	38.4	25.5	48.7*
Crooked Fork		3600	3/30	26	10.0	9.0	14.3*
Elk Butte		5550	3/30	65	23.0	19.2	39.6*
Fish Lake Airstrip		5000	3/29	86	34.2	18.9	42.4
Forty-nine Meadows		4880	3/31	54	19.8	13.6	34.9
Goat Lake		6600	3/29	116	44.7	23.1	52.1*
#Granite Peak		6000	3/31	94	34.4	19.8	47.5*
Hemlock Butte		5500	3/31	100	37.8	26.8	52.9*
#Hoodoo Basin	Mont.	6000	3/31	108	47.7	23.0	53.8
#Hoodoo Creek	Mont.	5900	3/31	100	43.5	22.4	50.3
Lolo Pass		5240	3/30	62	28.4	15.4	32.8
Lost Lake		6000	3/31	113	44.3	25.2	62.1*
Mountain Meadows		6300	3/29	54	20.8	14.9	26.1*
#Nez Perce Pass	Mont.	6575	3/28	44	19.2	12.5	17.3
Orogrande Mountain		7800	3/29	98	33.6	20.5	40.6*
Pierce Ranger Station		3170	3/30	9	3.0	7.1	9.4
Savage Pass		6170	3/31	61	26.8	15.4	28.3
Shanghai Summit		4600	3/31	47	17.9	14.3	28.2*
SALMON RIVER							
Big Creek Summit		6600	3/29	93	41.2	10.9	37.4
Borah (A)		8250	3/28	16	5.1	1.7	--
#Boulder Creek		5500	3/31	38	15.7	8.8	24.8
Brundage Mountain		7560	3/29	116	51.5	15.8	49.1*
#Deadwood Summit		7000	3/31	102	48.3	11.6	47.0
Double Springs Pass (A)		8400	3/28	27	10.4	1.9	--
#Galena Summit		8795	3/28	59	23.3	5.8	25.0
#Gibbons Pass	Mont.	7100	4/3	56	25.9	9.5	23.7
Leatherman Pass		9800	3/28	58	21.6	9.5	--
#Lemhi Pass	Mont.	7480	3/26	32	11.0	5.6	9.2
#Lemhi Ridge	Mont.	8100	3/26	37	12.9	6.1	10.4
Mill Creek Summit		8870	3/28	53	20.4	6.7	23.6
Moose Creek		6200	3/31	46	18.4	7.7	16.9
Morgan Creek		7580	3/28	34	14.2	5.7	14.1*
Morse Creek Sawmill		7120	3/28	27	10.2	4.0	--
Redfish Lake Flat		6570	3/29	31	12.7	3.9	--
#Rock Flat Summit		5200	3/29	51	19.3	6.9	18.6
#Secesh Summit		6520	3/30	73	35.2	11.6	37.6*

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average b/
#Squaw Meadow	5800	3/30	73	35.5	11.3	37.6
Twin Peaks (A)	10300	3/28	51	19.6	9.7	--
Vienna Mine	8960	3/31	86	39.5	10.4	38.7
Williams Creek Summit	7800	3/27	42	14.4	4.8	13.4
Lemhi River						
Above Gilmore	8200	3/28	26	8.1	4.4	10.5*
Aspen-Hall Pass (A)	8110	3/28	28	8.9	5.2	9.6*
Copes Camp	7500	3/28	27	7.5	4.4	8.4*
Hall Creek	7560	3/28	10	2.9	3.4	5.4*
Meadow Lake	9100	3/28	45	16.5	8.0	20.5*
Schwartz Lake	8500	3/28	38	11.3	6.1	13.4*

*(b) 1958-72, 15 year period. #Not located directly on this droinoge. * Estimoted 1958-72, 15 year Iveroge. (A) Aeriol observotion Woter content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Rodioactive Gage snow-water equivalent.*

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SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average 6
MIDDLE SNAKE RIVER BASIN - NORTHSIDE						
LITTLE LOST RIVER						
Fairview Guard Station	6750	3/30	0	0.0	0.0	3.1
Lost Garfield	6600	3/30	0	0.0	0.0	2.6
Moonshine	7450	3/30	31	11.5	2.6	11.2
Sawmill Canyon	6900	3/30	18	6.8	2.2	7.9
Wet Creek Summit	7600	3/31	28	10.0	2.5	13.1
BIG LOST RIVER						
Bear Canyon	7920	3/29	46	15.8	3.7	19.4
Copper Basin	7650	3/29	29	11.4	0.0	10.5
Fishpole Lake	9350	3/29	65	25.4	--	--
Iron Bog	7650	3/28	30	12.2	1.9	14.6*
Leadbelt	6800	3/29	24	9.3	1.6	9.4*
#Leatherman Pass	9800	3/28	58	21.6	9.5	--
Lost-Wood Divide	7900	3/29	57	22.6	6.0	23.7
Stickney Mill	7500	3/29	24	8.0	2.2	10.3
White Knob	7700	3/31	27	9.6	3.5	10.0*
FISH CREEK						
Iron Mine Creek	6370	3/29	27	10.2	2.8	10.2
Telfer Ranch	6000	3/29	16	6.8	0.0	6.6
LITTLE WOOD RIVER						
#Bear Canyon	7920	3/29	46	15.8	3.7	19.4
Garfield Ranger Station	6554	3/30	26	11.7	0.0	10.3
Muldoon	6300	3/30	13	6.4	0.0	7.1
Swede Peak	7650	3/30	47	18.6	3.8	17.8
BIG WOOD RIVER						
Camas Creeks Divide	5720	3/29	10	5.6	0.0	--
#Couch Summit	6950	3/27	52	22.0	3.3	19.0
Dollarhide Summit	8620	3/29	78	32.0	4.4	24.6*
Galena	7300	3/28	47	20.7	3.4	19.8
Galena Summit	8795	3/28	59	23.3	5.8	25.0
Graham Ranch	6200	3/28	32	13.2	1.8	13.6
#Lost-Wood Divide	7900	3/29	57	22.6	6.0	23.7
Mascot Mine	7900	3/28	42	16.4	2.9	13.9
Mount Baldy	9000	3/31	62	24.3	4.6	21.2
Soldier Ranger Station	6100	3/27	33	13.6	0.0	9.6
#Vienna Mine	8960	3/31	86	39.5	10.4	38.7

*(b) 1958-72, 15 year period. #Not located directly on this droinage. * Estimoted 1958-72, 15 year Averoge. (A) Aerial observotion Water content estimated. (SP) Pressure Pillow snou-water equivalent. (R) Rodiooctive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average [b]
CANYON CREEK						
Bennett Mountain	6650	3/29	40	24.8	6.8	17.5*
#Camas Creeks Divide	5720	3/29	10	5.6	0.0	--
Little Camas Flat	4950	3/29	6	3.0	0.0	--
BOISE RIVER						
Atlanta Summit	7500	3/31	89	38.2	7.4	36.0
Bad Bear	5500	3/31	30	12.4	4.1	13.2*
#Bennett Mountain	6650	3/29	40	24.8	6.8	17.5*
#Bogus Basin	6120	3/29	59	24.5	11.2	24.2
Bogus Basin Road	5360	3/29	0	0.0	0.0	1.4
#Camas Creeks Divide	5720	3/29	10	5.6	0.0	--
Couch Summit	6950	3/27	52	22.0	3.3	19.0
Deadman Gulch	5600	3/27	40	16.2	7.4	15.4*
#Dollarhide Summit	8620	3/29	78	32.0	4.4	24.6*
Graham Guard Station	5690	3/31	39	18.1	4.1	--
Jackson Peak	7000	3/31	77	34.8	9.2	32.4
#Little Camas Flat	4950	3/29	6	3.0	0.0	--
Moores Creek Summit	6100	3/31	82	34.2	10.0	33.3
Prairie	4900	3/30	0	0.0	0.0	2.8
Road Creek	5550	3/31	18	7.8	2.1	8.1
#Soldier Ranger Station	6100	3/27	33	13.6	0.0	9.6
Trinity Mountain	7780	3/31	97	46.7	9.8	42.9
#Vienna Mine	8960	3/31	86	39.5	10.4	38.7
PAYETTE RIVER						
#Big Creek Summit	6600	3/29	93	41.2	10.9	37.4
Bogus Basin	6120	3/29	59	24.5	11.2	24.2
#Brundage Mountain	7560	3/29	116	51.5	15.8	49.1*
Cozy Cove	5400	3/31	32	13.6	5.2	16.2
Crawford Ranger Station	4800	3/29	14	6.2	0.0	6.3
#Deadman Gulch	5600	3/27	40	16.2	7.4	15.4*
Deadwood Airstrip	5440	3/31	31	13.8	5.4	15.3
Deadwood Summit	7000	3/31	102	48.3	11.6	47.0
High Valley Summit	5170	3/27	36	14.2	6.1	11.8*
#Jackson Peak	7000	3/31	77	34.8	9.2	32.4
Lake Fork	6000	3/31	41	16.8	6.0	16.1
Rock Flat Summit	5200	3/29	51	19.3	6.9	18.6
Secesh Summit	6520	3/30	73	35.2	11.6	37.6*
Squaw Meadow	5800	3/30	73	35.5	11.3	37.6
Tripod Summit	5200	3/27	42	18.2	8.3	18.3*
WEISER RIVER						
Boulder Creek	5500	3/31	38	15.7	8.8	24.8
Placer Creek	6000	3/31	44	17.2	6.7	18.2

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

USDA SCS PORTLAND OREGON 1974 M7-0-22073+

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME		Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average (b)
MANN CREEK							
Mann Creek		6080	4/1	57	26.8	10.6	--
Robinson Creek Ridge		6220	4/1	46	21.8	5.0	--
Sturgill Ridge		6800	4/1	62	29.2	10.7	--
Thorson Cabin		5320	4/1	32	15.2	4.7	--
MIDDLE SNAKE RIVER BASIN - SOUTHSIDE							
RAFT RIVER							
Boy Scout Camp		7760	3/28	38	16.3	10.9	15.0
Clear Creek Meadows	Utah	9050	3/28	68	26.2	9.5	21.6*
George Peak	Utah	9000	3/28	77	31.0	9.8	--
Howell Canyon		8000	3/28	60	27.1	11.1	25.7
One Mile Summit	Utah	7330	3/28	16	6.1	4.0	8.0*
Sheep Hollow		6200	3/28	6	2.8	7.5	4.8*
Sublett		6000	3/28	19	7.8	4.5	10.3
Summit Springs		6400	3/28	16	7.0	4.4	9.2
GOOSE CREEK							
Badger Gulch		6660	3/28	31	12.7	5.4	12.0
Bostetter Ranger Station		7500	3/28	46	18.4	8.3	19.5
Vi Pont	Utah	7670	3/28	42	16.0	6.5	14.4*
SALMON FALLS CREEK							
#Bear Creek	Nev.	7800	3/30	54	23.4	11.7	20.8
Cedar Creek		7000	3/30	20	7.7	3.6	9.3
Deadline		6900	3/30	45	20.1	8.6	22.9
#Fox Creek	Nev.	6800	3/30	22	8.7	6.6	10.0*
Goat Creek	Nev.	8800	3/30	49	19.6	8.6	18.8
#Hummingbird Springs	Nev.	8945	3/30	66	25.9	10.4	23.7
Magic Mountain		6700	3/30	46	19.4	8.6	18.7
#Pole Creek R. S.	Nev.	8330	3/30	50	19.6	12.6	20.6
Shoshone Basin		5740	3/30	0	0.0	0.0	3.7*
Wilson Creek		7500	3/30	30	12.7	6.2	12.1*
BRUNEAU RIVER							
Bear Creek	Nev.	7800	3/30	54	23.4	11.7	20.8
Fox Creek	Nev.	6800	3/30	22	8.7	6.6	10.0*
Hummingbird Springs	Nev.	8945	3/30	66	25.9	10.4	23.7
Pole Creek R. S.	Nev.	8330	3/30	50	19.6	12.6	20.6
#Seventy-six Creek	Nev.	7100	3/30	27	11.2	4.8	11.6*

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME		Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average [b]
OWYHEE RIVER							
Antelope Ridge		5900	3/29	8	4.3	1.2	5.5*
Battle Creek (A)		5700	3/27	3	1.5	0.0	1.8*
#Bear Creek	Nev.	7800	3/30	54	23.4	11.7	20.8
Bull Basin (A)		5600	3/27	0	0.0	0.0	0.5*
#Fox Creek	Nev.	6800	3/30	22	8.7	6.6	10.0*
Hyde Pasture (A)		5800	3/27	3	1.5	0.0	3.0*
Mud Flat		5500	3/29	7	3.5	0.5	4.4
Red Canyon (A)		6650	3/27	14	6.4	2.0	4.6*
#Seventy-six Creek	Nev.	7100	3/30	27	11.2	4.8	11.6*
Silver City		6400	4/4	35	14.3	7.0	15.1
South Mountain		6340	3/31	24	11.0	6.3	12.4
Succor Creek (A)		6100	3/27	11	5.5	3.4	4.6*
Triangle (A)		5150	3/27	0	0.0	0.0	0.2*
Vaught Ranch (A)		5950	3/27	3	1.5	0.0	1.3*
War Eagle (A)		7700	3/27	72	28.8	9.8	22.2*
UPPER SNAKE RIVER BASIN							
CAMAS-BEAVER CREEKS							
Blue Ledge Mine		6700	3/29	44	18.1	5.3	17.2
Camp Creek		6800	3/31	23	8.3	2.3	10.4
Kilgore		6200	3/29	31	13.8	3.2	10.9
HENRYS FORK RIVER							
Big Springs		6400	3/30	50	22.6	7.7	21.3
Grassy Lake	Wyo.	7230	3/29	98	43.1	18.1	35.0
Island Park		6315	3/30	39	18.2	6.4	16.4
Sawtell Mountain		8720	3/30	90	37.8	13.7	35.3*
Targhee Pass		7000	3/30	37	15.4	6.1	16.2*
Valley View		6500	3/30	35	15.0	6.3	17.7
White Elephant		7700	3/30	68	30.0	10.2	--
TETON RIVER							
Darby Canyon	Wyo.	8250	3/29	68	25.8	13.1	--
Freds Mountain	Wyo.	8150	3/29	75	28.5	13.6	--
Garns Mountain		8300	3/29	89	38.2	15.7	--
Indian Meadows	Wyo.	8240	3/29	101	42.3	16.8	--
Jackpine Creek	Wyo.	7350	3/29	64	24.3	10.7	--
McRenolds Reservoir		6800	3/29	57	23.3	10.2	--
Miles Creek	Wyo.	7300	3/29	38	16.2	9.7	--
Phillips Bench	Wyo.	8200	3/30	94	40.7	15.6	--
Pine Creek Pass		6750	3/29	48	19.9	7.4	17.7*
State Line		6650	3/25	38	15.0	7.0	14.9
Teton Pass W.S.	Wyo.	8400	3/30	77	33.2	13.1	--

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

USDA-SCS PORTLAND OREGON 1974 M7-0-22023

SNOW

DRAINAGE BASIN and/or SNDW CDURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average 6
WILLOW CREEK						
Aspen Grove	6600	3/30	37	13.5	4.5	11.3*
Birch Creek	6800	3/30	20	7.7	4.0	13.9*
Blue Ridge	6800	3/30	39	17.0	5.3	--
Bone	6200	3/30	15	5.8	1.5	6.8*
Brockman Station	6430	3/30	24	10.5	3.8	--
Hell Creek	7100	3/30	34	14.5	4.8	--
Mud Creek	7150	3/30	42	18.5	5.0	--
Sheep Mountain	6510	3/30	31	12.4	4.6	13.3*
Tex Creek	6700	3/30	23	8.5	3.8	9.2*
SAND CREEK						
Henry Creek	5650	3/30	0	0.0	0.3	0.9*
BLACKFOOT RIVER						
Austin Bros. Ranch	6400	3/29	10	3.5	0.0	8.8
Slug Creek Divide	7225	3/28	50	21.0	8.4	17.3
Somsen Ranch	7000	3/29	46	18.9	8.1	13.5
Ten Mile Pass	6250	3/29	30	12.9	3.7	--
PORTNEUF RIVER						
Dempsey Creek	6280	4/2	32	14.2	5.5	12.4
Lower Pebble	5800	4/2	33	13.9	4.5	12.8*
Mink Creek	6300	4/2	34	14.8	8.7	17.4
Pebble Creek	6550	4/2	36	15.5	5.2	16.7

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average (b)
GREAT BASIN						
BEAR RIVER						
Emigrant Summit	7350	3/31	68	29.5	10.1	25.4
Emigration Canyon	6500	3/30	25	10.8	4.8	10.7
Montpelier Creek						
Giveout	6840	3/28	45	16.7	4.7	12.5*
Little Beaver	6970	3/28	51	20.8	5.7	16.1*
Lower Home Canyon	7500	3/30	44	18.4	7.9	--
Montpelier Creek	6570	3/28	28	10.6	1.0	8.4*
Upper Home Canyon	8500	3/30	74	30.9	11.7	--
Whiskey Flat	6985	3/28	33	12.5	2.6	9.3*
Mink Creek						
Christensen Ranch	5600	3/30	12	5.0	5.1	7.1
Dry Basin	7900	3/30	83	36.9	13.2	30.0*
#Emigrant Summit	7350	3/31	68	29.5	10.1	25.4
Horseshoe Basin	8000	3/30	76	35.4	13.4	28.1*
Liberty Spring	8600	3/30	116	50.4	16.8	40.1*
Strawberry Creek	5800	3/30	17	6.7	4.7	10.0
Strawberry Mink Divide	6800	3/30	59	27.0	9.0	21.5
Cub River						
Cub River R. S.	5400	3/30	7	3.2	5.7	6.1
#Franklin Basin	8000	3/30	71	33.1	14.0	28.0
Willow Flat	6100	3/30	34	15.2	6.0	14.4
Worm Creek	6660	3/30	48	22.1	8.3	--
MALAD RIVER						
Cliff Canyon	7200	3/30	22	9.5	2.8	--
Daniels Creek	6400	3/30	10	3.2	1.3	--
Dry Creek Flat	6480	3/30	4	1.7	0.0	3.3
Lower Elkhorn	7000	3/30	32	15.5	5.1	13.1*
Oxford Mountain	6800	3/30	18	7.8	3.8	8.9
Upper Elkhorn	7100	3/30	63	25.5	5.9	18.7*

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USDA SCS PORTLAND OREGON 1974 M7-0-22023P

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaha Department af Water Resaurces
State of Idaha Department af Fish and Game
University af Idaha
Idaha State University
Mantana Agricultural Experiment Statian
Montana State Water Canservation Board
Mantana Caaperative Snaw Surveys
Nevada Caoperative Snow Surveys
Oregon Agricultural Experiment Statian
Oregon Caaperative Snaw Surveys
Oregan State Engineer and Carps af
State Watermasters
Utah Caaperative Snaw Surveys
Wyaming Caaperative Snaw Surveys

Federal:

U.S. Army Engineers

U.S. Department af Agriculture
Forest Service
Agricultural Research Service
Statistical Reporting Service

U.S. Department af Cammerce
NOAA, Natianal Weather Service

U.S. Department af the Interiar
Banneville Pawer Administration
Bureau af Reclamatian
Fish and Wildlife Service
Water Resaurces Division, Gealagical Survey
Natianal Park Service
Bureau af Land Management

PUBLIC UTILITIES

The Mantana Pawer Company
Washingtan Water Pawer Campany
Idaho Power Campany
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigatian District
Blaine Sail Canservatian District
Baise Project Baard af Cantral
Idaho Water District #01
Little Waad River Irrigatian District
Mann Creek Irrigation District
Salman Falls Creek Irrigatian Campany
Twin Falls Sail Canservation District
Big Woad Irrigatian Company
Owyhee Praject - Narth & Sauth Baard af Cantral
Valley Sail Canservatian District
Portneuf Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

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SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

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WATER SUPPLY OUTLOOK FOR IDAHO

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U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
MAY 1, 1978

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SOME OF THE DATA IN THIS REPORT HAVE BEEN RECEIVED THROUGH THE SOIL CONSERVATION SERVICE'S NEW SNOTEL SYSTEM WHICH TRANSMITS INFORMATION VIA THE SPACE AGED METEOR BURST METHOD FROM DATA SITES TO MASTER STATIONS LIKE THESE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P.O. Box 98, Bazeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Cosper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.

USDA-SCS-PORTLAND OR 1977

WATER SUPPLY OUTLOOK

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M7-L-22030X

WATER SUPPLY OUTLOOK for IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R. M. DAVIS
ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

Released by

AMOS I. GARRISON, JR.
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

C. STEPHEN ALLRED
DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by
JACK A. WILSON, Snow Survey Supervisor
GERALD A. BEARD, Asst. Snow Survey Supervisor
KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th ST.
BOISE, IDAHO 83702

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WATER SUPPLY OUTLOOK for IDAHO

GENERAL SUMMARY FOR MAY 1, 1978

Water supplies for Idaho are forecast to be generally adequate for the 1978 irrigation season. Seasonal streamflow forecasts vary from 77 percent of average for the Clearwater River at Spalding to 157 percent of normal for Montpelier Creek near Montpelier.

Snowfall in the mountainous areas and rain in the valleys was well above normal during April. Snow water equivalent increased on most high elevation snow courses, remained quite static at middle elevations, and melted off at the lower elevation sites.

A change in the weather pattern during April caused the average valley precipitation in Idaho to increase from 86 percent of normal near April 1 to 175 percent near May 1. The range for April was from a low of 117 percent at Pocatello and 120 percent at Kellogg to 206 percent at Boise and 321 percent at Ketchum. The reading at Ketchum was the greatest recorded in 40 years of record for April.

Soil moisture is good at lower elevations, fair to good at middle elevations, and only fair in the high mountainous areas.

In general, streamflow during April was near normal with a resultant increase in reservoir storage. Though storage in general is slightly below average, the major reservoirs are expected to fill by the beginning of the irrigation season. Some reservoirs are presently being lowered to make room for the major snowmelt runoff which will occur in late May and June.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST (c) Thousand Acre Feet	THIS YEAR FORECAST (c) Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	6700	81	May-Sep		8262
		5770	81	May-Jul		7146
		4500	80	May-Jun		5620
PEND OREILLE RIVER						
Clark Fork River						
Whitehorse Rapids	(at)	10900	88	May-Sep		12553
		9780	88	May-Jul		11283
		8240	88	May-Jun		9523
Priest River						
Priest River 1/*	(nr)	627	92	May-Jul		685
SPOKANE RIVER						
Post Falls 2/	(at)	1750	86	May-Sep		2034
St. Joe River						
Calder	(at)	880	84	May-Sep		1047
		820	84	May-Jul		978
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 3/	(at)	1010	118	Apr-Sep		858
Heise 4/	(nr)	4370	120	May-Sep		3640
Blackfoot 5/	(nr)	4600	121	May-Jul		3812
Weiser *	(at)	5890	116	May-Sep		5076
Henrys Fork						
Ashton 6/	(nr)	650	114	May-Sep		569
Rexburg 7/	(nr)	1370	112	May-Sep		1226
Teton River						
St. Anthony	(nr)	435	109	May-Sep		398
Portneuf River						
Topaz	(at)	78	118	May-Sep		66
Oakley Reservoir Inflow		18	98	May-Sep		18.4

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake. 2/ Observed flow corrected for storage in Coeur d'Alene Lake 3/ Corrected for storage in Jackson Lake. 4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.

\+ 1958-1972 period.

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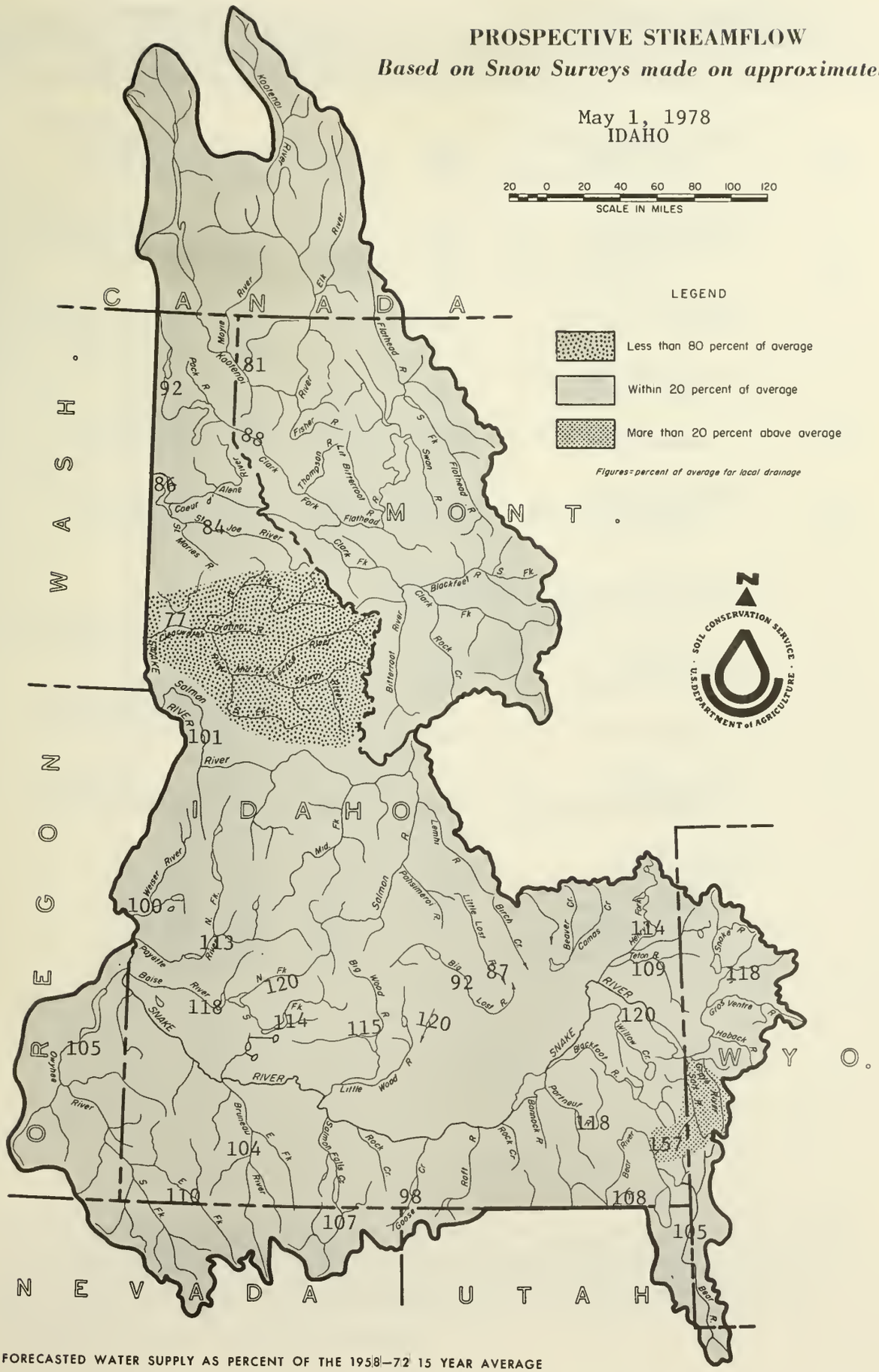
PROSPECTIVE STREAMFLOW

Based on Snow Surveys made on approximately

May 1, 1978

IDAHO



FORECASTED WATER SUPPLY AS PERCENT OF THE 1958—72 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST[c] Thousand Acre Feet	THIS YEAR FORECAST[c] Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average †
Salmon Falls Creek						
San Jacinto	(nr)	58	107	May-Sep		54
		54	108	May-Jul		50
Bruneau River						
Hot Springs	(nr)	170	104	May-Sep		163
Little Lost River						
Howe	(nr)	31	87	May-Sep		35.5
Big Lost River						
Howell Ranch	(at)	185	93	May-Sep		198
		128	93	May-Jun		137
Mackay 1/	(nr)	155	92	May-Sep		168
Big Wood River						
Magic Reservoir		240	115	May-Sep		209
Inflow 2/		223	115	May-Jul		194
Little Wood River						
High Five Creek	(ab)	88	120	May-Sep		73
Boise River						
Twin Springs	(nr)	715	120	May-Sep		597
		650	120	May-Jul		542
Boise 3/	(nr)	1500	118	May-Sep		1276
South Fork						
Anderson Dam 4/	(at)	560	114	May-Sep		491
Owyhee River						
Gold Cr., Nev. 5/	(nr)	11	137	May-Jul		8
Owyhee, Nev. 5/	(nr)	45	110	May-Jul		41
Lake Owyhee		183	105	May-Sep		180
net inflow 6/		166	105	May-Jul		157

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir 2/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 3/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 4/ Corrected for storage in Anderson Ranch Reservoir. 5/ Corrected for storage in Wild Horse Reservoir. 6/ From U.S.B.R. records of inflow.

† 1958-1972 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST[c] Thousand Acre Feet	THIS YEAR FORECAST[c] Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
Payette River						
Horseshoe Bend 1/	(nr)	1735	113	May-Sep		1536
Banks 2/	(nr)	930	112	May-Jul		830
North Fork						
Cascade 3/	(at)	535	114	May-Sep		471
Banks 3/	(nr)	670	114	May-Sep		589
Weiser River						
Weiser ab. Crane Creek 4/		275	100	May-Sep		274
Salmon River						
Whitebird *	(at)	6380	101	May-Sep		6311
Clearwater River						
Spalding *	(at)	5330	77	May-Sep		6892
GREAT BASIN						
BEAR RIVER						
Harer	(at)	250	105	May-Sep		237
Montpelier Creek						
Montpelier	(nr)	16	157	May-Sep		10.2
Cub River						
Preston	(nr)	50	108	May-Sep		46.1

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir 2/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 3/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 4/ Corrected for storage in Anderson Ranch Reservoir. 5/ Corrected for storage in Wild Horse Reservoir. 6/ From U.S.B.R. records of inflow. + 1958-1972 period.

* National Weather Service Forecast

RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1958-72 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	1947.0	2288.0	2006.0
Flathead	1791.0	835.3	877.4	977.9
Pend Oreille	1155.1	442.2	419.0	534.3
Noxon	334.6	234.3	314.2	138.4
Spokane				
Coeur d'Alene	225.1	202.4	179.3	253.1
SNAKE BASIN				
Snake				
Jackson Lake	847.0	330.2	646.7	501.7
Palisades	1200.0	315.6	1126.1	774.4
American Falls	1700.0	1584.1	991.3	1089.7
Island Park	127.0	108.2	133.7	132.1
Grassy Lake	15.2	9.9	11.4	10.9
Brownlee	980.2	644.2	697.0	432.9*
Goose-Trapper Creeks				
Oakley	74.4	44.4	46.4	27.3
Salmon Falls Creek				
Salmon Falls	182.6	69.5	85.3	59.4
Big Lost				
Mackay	44.2	34.1	30.6	31.7
Big Wood				
Magic	191.5	179.2	84.0	170.2
Little Wood				
Little Wood	30.0	28.1	16.8	24.6
Fish Creek				
Carey Valley	14.4	12.4	6.2	--
Boise				
Anderson Ranch	423.2	232.7	340.5	282.0
Arrowrock	286.6	180.3	16.9	231.4
Lucky Peak	278.2	138.7	261.1	142.5
Lake Lowell (Deer Flat)	169.0	173.3	102.7	155.4
Owyhee				
Owyhee	715.0	718.6	484.9	563.7
Payette				
Cascade	653.2	422.8	355.1	353.8
Deadwood	161.9	80.5	95.4	92.4
Weiser				
Mann Creek	11.1	11.4	1.2	--
Clearwater				
Dworshak	2016.0	998.3	1029.1	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	847.8	1050.0	1040.0
* Period of Record				

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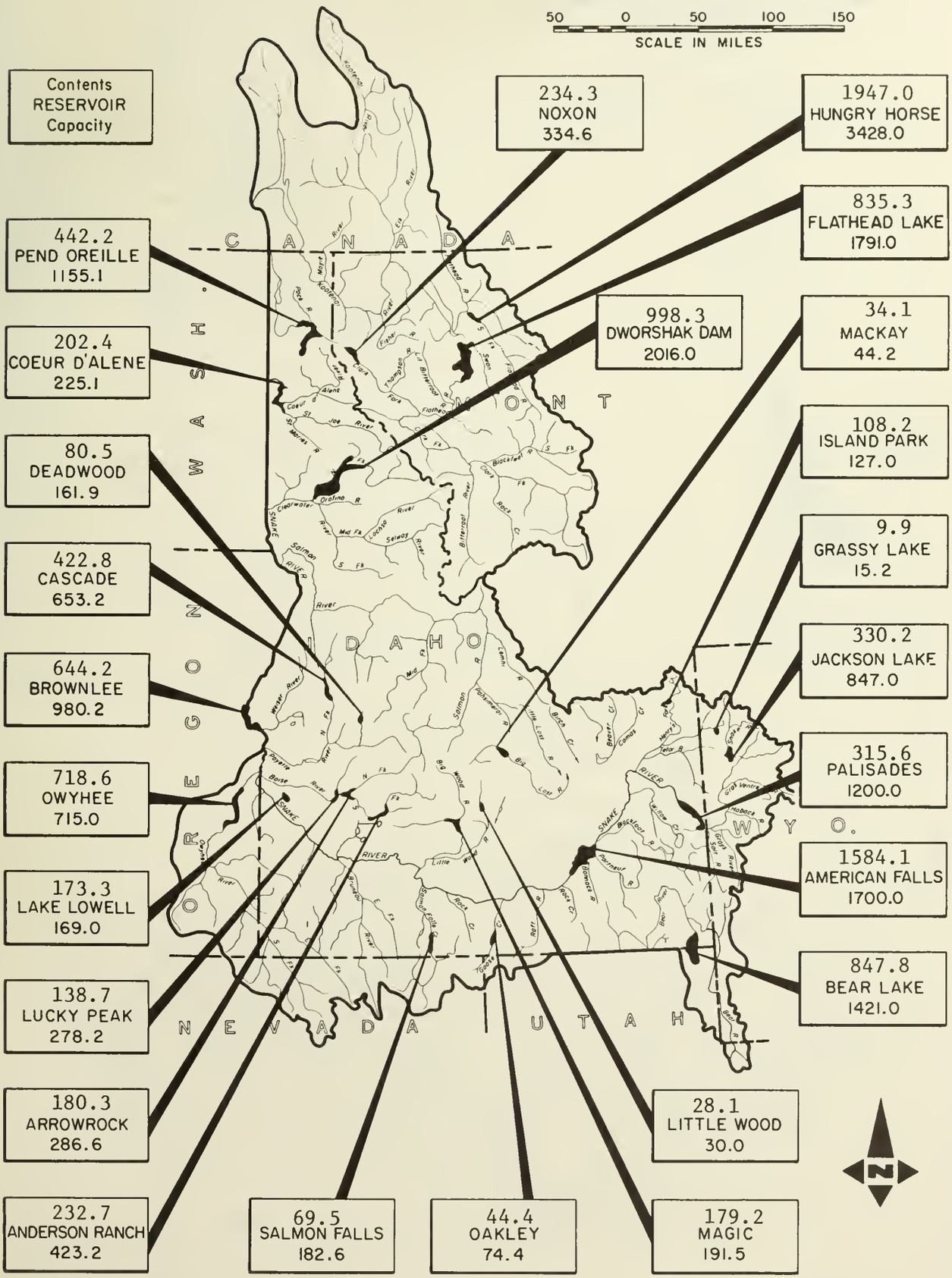
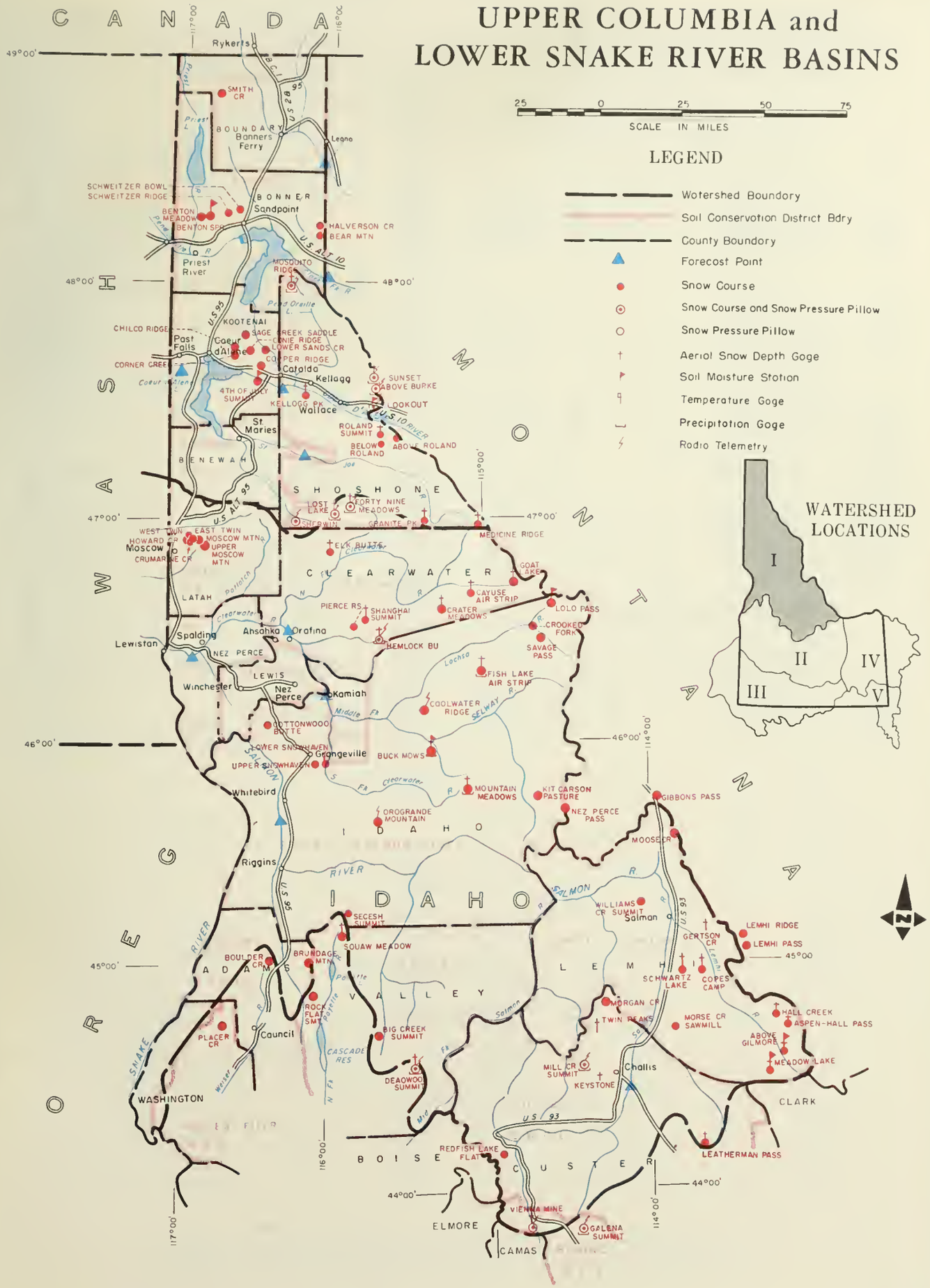
RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

May 1, 1978




UPPER COLUMBIA and
LOWER SNAKE RIVER BASINS
SCALE IN MILES
25 0 25 50 75
LEGEND
Watershed Boundary
Soil Conservation District Bdry
County Boundary
Forecast Point
Snow Course
Snow Course and Snow Pressure Pillow
Snow Pressure Pillow
Aerial Snow Depth Gage
Soil Moisture Station
Temperature Gage
Precipitation Gage
Radio Telemetry
WATERSHED LOCATIONS
I
II
III
IV
V
CANADA
IDAHO
WASHINGTON
OREGON
NEVADA
MONTANA
BOUNDARY
BONNER
KOOTENAI
SHOSHONE
BENEWAH
LATAH
CLEARWATER
NEZ PERCE
LEWIS
IDAHO
ADAMS
VALLEY
LEMHI
CLARK
CUSTER
BOISE
ELMORE
CAMAS
Rykerts
Bonners Ferry
Sandpoint
Priest River
Priest L.
Pend Oreille L.
Coeur d'Alene L.
Post Falls
Coeur d'Alene
Kellogg
Wallace
St. Maries
Moscow
Lewiston
Spalding
Ansahka
Orofino
Winchester
Nez Perce
Kamiah
Grangeville
Whitebird
Riggins
Council
Salmon
Challis
Mackay
Leadore
Clayton
Stanley
Ketchum
Sun Valley
Hailey
Bellevue
Carey
Arco
Howe
Dubois
Spencer
Rexburg
Idaho Falls
Blackfoot
Pocatello
Soda Springs
Preston
Malad City
Grace
Montpelier
Bear L.
Bear R.
Snake R.
Salmon R.
Clearwater R.
Selway R.
Lochsa
Middle Fk
S. Fk
N. Fk
Weiser R.
Payette L.
Cascade Res.
Mid
Joe
Portlach
Latah
Crumarine Cr
Howard Cr
Corner Cr
Chilco Ridge
Schweitzer Bowl
Schweitzer Ridge
Benton Meadow
Benton Spr
Smith Cr
Halverson Cr
Bear Mtn
Mosquito Ridge
Sage Creek Saddle
Conie Ridge
Lower Sands Cr
Copper Ridge
Sunset
Above Burke
Lookout
4th of July Summit
Kellogg Pk
Roland Summit
Below Roland
Above Roland
Lost Lake
Forty Nine Meadows
Strowin
Granite Pk
Medicine Ridge
Elk Butte
West Twin
East Twin
Moscow Mtn
Upper Moscow Mtn
Goat Lake
Cayuse Air Strip
Crater Meadows
Lolo Pass
Crooked Fork
Savage Pass
Pierce RS
Shanghai Summit
Hemlock Bu
Fish Lake Air Strip
Coolwater Ridge
Cottonwood Butte
Lower Snowhaven
Upper Snowhaven
Buck Mows
Mountain Meadows
Kit Carson Pasture
Nez Perce Pass
Gibbons Pass
Orogrande Mountain
Moose Cr
Williams Cr Summit
Gertson Cr
Lemhi Ridge
Lemhi Pass
Schwartz Lake
Copes Camp
Secesh Summit
Souaw Meadow
Boulder Cr
Brundage Mtn
Rock Flat Smt
Placer Cr
Big Creek Summit
Deadwood Summit
Morgan Cr
Twin Peaks
Morse Cr Sawmill
Hall Creek
Aspen-Hall Pass
Above Gilmore
Meadow Lake
Mill Cr Summit
Keystone
Redfish Lake Flat
Leatherman Pass
Vienna Mine
Galena Summit
US 95
US Alt 95
US 10
US 93
49°00'
48°00'
47°00'
46°00'
45°00'
44°00'
117°00'
116°00'
115°00'
114°00'
N

INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
16A7	I	Halverson Creek	3	57N	3E	4850
16A1	I	Smith Creek	29	64N	3W	4800
PEND OREILLE - PRIEST RIVER						
16A8	I	Bear Mountain	9	57N	3E	5400
16A2	I	Benton Meadow	27	58N	4W	2370
16A3	I	Benton Spring	30	58N	3W	4900
16A6	I	Schweitzer Bowl	20	58N	2W	4500
16A5	I	Schweitzer Ridge	19	58N	2W	6200
HAYDEN CREEK						
16B8	I	Chilco Ridge	15	52N	2W	3650
16B7	I	Conie Ridge	22	52N	2W	3900
16B9	I	Corner Creek	22	52N	2W	3150
16B6	I	Sage Creek Saddle	10	52N	2W	4100
SPOKANE RIVER						
15B8SP	I	Above Burke	11	48N	5E	4100
15B7	I	Above Roland	35	47N	6E	4350
15B6	I	Below Roland	3	46N	6E	3840
16B2	I	Copper Ridge	6	50N	1W	4800
16B3M	I	Fourth of July Summit	6	49N	1W	3200
15B13A	I	Granite Peak	3	42N	8E	6000
16B5A	I	Kellogg Peak	19	48N	3E	5560
15B2MSP	I	Lookout	4	47N	6E	5120
16B1	I	Lower Sands Creek	32	51N	1W	3400
15B4ASP	I	Medicine Ridge	24	43N	10E	6160
16A4ASP	I	Mosquito Ridge	5	54N	2E	5110
15B5A	I	Roland Summit	26	47N	6E	5200
16C1SP	I	Sherwin	28	42N	1E	3200
15B9ASP	I	Sunset	33	49N	5E	5600
LOWER SNAKE BASIN						
PALOUSE RIVER						
16C6	I	Crumarine Creek	24	40N	5W	3340
16C3	I	East Twin	13	40N	5W	4050
16C5	I	Howard Creek	14	40N	5W	3500
16C2	I	Moscow Mountain	18	40N	4W	4400
16C4P	I	West Twin	14	40N	5W	4250

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
CLEARWATER RIVER						
15D5MAP	I	Buck Meadows	26	31N	8E	5650
15C3A	I	Cayuse Airstrip	4	38N	11E	3700
15C7S	I	Coolwater Mountain	32	33N	8E	6200
16C16	I	Cottonwood Butte	33	32N	1W	5140
15C9A	I	Crater Meadows	2	37N	9E	6100
14C10	I	Crooked Fork	27	37N	14E	3800
16C15A	I	Elk Butte	6	40N	3E	5550
15C2AP	I	Fish Lake Airstrip	35	35N	11E	5000
15B3ASP	I	Forty-nine Meadows	6	43N	5E	4880
14C9A	I	Goat Lake	4	38N	13E	6600
16C6AP	I	Hemlock Butte	7	36N	7E	5500
15C8S	M	Hoodoo Basin	17	14N	27W	6000
15C1	M	Hoodoo Creek	16	14N	27W	5900
14D3	I	Kit Carson Pasture	4	27N	16E	5020
14C5M	I	Lolo Pass	16	38N	15E	5240
15B14AS	I	Lost Lake	16	43N	4E	6000
16D7	I	Lower Snowhaven	9	29N	3E	5300
15D6AP	I	Mountain Meadows	9	27N	10E	6300
14D1	M	Nez Perce Pass	25	1S	24W	6575
15D4S	I	Orogrande Mountain	24	27N	6E	7800
15C5	I	Pierce Ranger Station	2	36N	5E	3170
14C6	I	Powell Ranger Station	33	37N	14E	4230
14C4	I	Savage Pass	18	36N	15E	6170
15C4A	I	Shanghai Summit	7	37N	6E	4600
16D4	I	Upper Snowhaven	8 &9	29N	3E	5600
SALMON RIVER						
13E19MA	I	Above Gilmore	13	13N	26E	8250
13E21A	I	Aspen-Hall Pass	6	16N	28E	8110
15E2	I	Big Creek Summit	24	15N	5E	6600
13E8A	I	Borah	21	10N	23E	8250
16D6	I	Brundage Mountain	6	19N	3E	7560
13E17A	I	Copes Camp	36	18N	22E	7500
13E25A	I	Double Springs Pass	3	10N	22E	8400
13D2	M	Gibbons Pass	4	2S	19W	7100
13E20A	I	Hall Creek	1	16N	27E	7560
13E24A	I	Leatherman Pass	20	9N	23E	9800
13E1	M	Lemhi Pass	9	10S	15W	7480
13E23	M	Lemhi Ridge	4	10S	15W	8100
13E18MA	I	Meadow Lake	25	13N	26E	9200
14E1MAP	I	Mill Creek Summit	8	13N	17E	8800
13D16	I	Moose Creek	14	27N	21E	6200
14E4	I	Morgan Creek	32	18N	19E	7580
13E26	I	Morse Creek Sawmill	8	15N	23E	7120
14E7	I	Redfish Lake Flat	35	10N	13E	6550
13E16A	I	Schwartz Lake	34	18N	22E	8500
14E3A	I	Twin Peaks	28	15N	17E	9170
14F4AP	I	Vienna Mine	1	5N	13E	8950
14D4	I	Williams Creek Summit	34	21N	20E	7800

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY
10J7p	STORAGE PRECIPITATION GAGE ONLY
10J7R	RADIOACTIVE GAGE

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average (b)
UPPER COLUMBIA RIVER BASIN						
KOOTENAI RIVER						
#Bear Mountain	5400	4/26	106	49.3	23.0	68.8*
Halverson Creek	4850	4/26	85	40.2	18.0	49.7*
Smith Creek	4800	4/28	83	37.2	15.2	48.6
PEND OREILLE - PRIEST RIVER						
Bear Mountain	5400	4/26	106	49.3	23.0	68.8*
Benton Meadow	2370	4/27	0	0.0	0.0	0.0
Benton Spring	4900	4/27	24	10.7	0.0	15.7
Schweitzer Bowl	4500	4/28	38	17.8	0.0	26.6*
Schweitzer Ridge	6100	4/28	104	51.2	14.5	50.6*
SPOKANE RIVER						
Above Burke	4100	4/29	28	13.4	4.7	--
Copper Ridge	4800	4/27	18	9.2	0.0	27.3
#Forty-nine Meadows	4880	5/2	32	12.8	4.0	30.3*
Fourth of July Summit	3200	4/29	0	0.0	0.0	--
Granite Peak	6000	5/2	81	33.0	15.5	48.3*
Lookout	5120	4/28	59	29.6	8.3	36.7
#Lost Lake	6000	5/2	105	44.8	19.3	62.0*
Lower Sands Creek	3400	4/27	20	9.7	7.3	16.0
Sherwin	3200	5/1	0	0.0	0.0	--
CLEARWATER RIVER						
Breezy Saddle	5000	5/2	36	15.0	4.3	--
Buck Meadows	5650	5/3	49	18.6	8.1	32.7*
Cayuse Airstrip	3700	5/2	0	0.0	0.0	0.3*
Coolwater Mountain	6200	5/3	79	30.8	12.4	34.5*
Crater Meadows	6100	5/2	80	39.0	21.4	50.2*
Crooked Fork	3600	4/26	0	0.0	0.0	--
Elk Butte	5550	5/2	38	14.6	5.6	36.1*
Fish Lake Airstrip	5000	5/3	69	29.4	13.4	42.6*
Forty-nine Meadows	4880	5/2	32	12.8	4.0	30.3*
Goat Lake	6600	5/3	103	42.0	19.7	54.7*
#Granite Peak	6000	5/2	81	33.0	15.5	48.3*
Hemlock Butte	5500	5/2	90	35.7	16.8	54.4*
#Hoodoo Basin Mont.	6000	4/27	104	52.4	20.6	55.2
#Hoodoo Creek Mont.	5900	4/27	95	45.4	18.4	52.2
Lolo Pass	5240	4/26	52	25.4	8.0	32.3
Lost Lake	6000	5/2	105	44.8	19.3	62.0*
Mountain Meadows	6300	5/3	42	16.4	7.2	27.3*
#Nez Perce Pass Mont.	6575	4/29	29	15.0	2.1	15.6
Orogrande Mountain	7800	5/3	102	37.6	19.2	47.5*

*(b) 1958-72, 15 yeor period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Averoge. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Goge snow-water equivalent.*

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SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME		Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average [b]
Pierce Ranger Station		3170	5/1	0	0.0	0.0	1.3
Savage Pass		6170	4/26	58	26.8	8.8	29.2
Shanghai Summit		4600	5/2	24	9.5	1.9	24.0
SALMON RIVER							
Big Creek Summit		6600	4/26	90	42.8	5.0	37.0
#Boulder Creek		5500	4/28	27	12.2	0.0	15.7*
Brundage Mountain		7560	4/27	122	55.0	6.4	51.9*
#Deadwood Summit		7000	5/1	98	48.9	0.9	48.4*
#Galena Summit		8795	4/27	78	30.7	0.0	26.0
#Gibbons Pass	Mont.	7100	4/26	47	25.4	4.5	24.4
#Lemhi Pass	Mont.	7480	4/28	22	8.8	0.0	--
#Lemhi Ridge	Mont.	8100	4/28	27	11.6	0.0	--
Mill Creek Summit		8870	5/1	59	23.5	3.7	25.6*
Moose Creek		6200	5/1	27	13.0	--	16.0*
Morgan Creek		7580	5/1	23	10.0	0.0	13.1*
#Rock Flat Summit		5200	4/27	42	18.7	0.0	16.5*
#Secesh Summit		6520	4/26	71	37.4	2.3	--
#Squaw Meadow		5800	4/26	69	35.0	0.0	36.5*
Vienna Mine		8960	5/1	96	45.0	5.4	37.9*
Lemhi River							
Above Gilmore		8200	4/28	19	8.1	0.0	10.7*
Meadow Lake		9100	4/28	47	17.7	0.0	22.3*

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

USDA SCS PORTLAND OREGON 1974 M7-0-22023P

MIDDLE SNAKE RIVER BASIN
NORTHSIDE

LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and Snow Pressure Pillow
- Snow Pressure Pillow
- Aerial Snow Depth Gage
- Soil Moisture Station
- Temperature Gage
- Precipitation Gage
- Radio Telemetry

USDA-SCS-PORTLAND, OREG. 1974 M7-OL-22023-2

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MIDDLE SNAKE RIVER BASIN NORTHSIDE

LITTLE LOST RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
13E5M	I	Fairview Guard Station	27	12N	26E	6750
13E3	I	Lost-Garfield	3	11N	26E	6600
13E6	I	Moonshine	31	13N	26E	7500
13E4	I	Sawmill Canyon	17	12N	26E	6900
13E7MP	I	Wet Creek Summit	15	8N	25E	7760

BIG LOST RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
13F3	I	Bear Canyon	22	5N	21E	7920
13F2A	I	Copper Basin	25	6N	21E	7650
13F3A	I	Fishpole Lake	28	4N	22E	9350
13F11	I	Iron Bog	23	4N	22E	7650
13F12	I	Leadbelt	34	4N	23E	6800
14F3A	I	Lost Wood Divide	25	6N	18E	7900
14F2A	I	Stickney Mill	9	6N	19E	7450
13F1	I	White Knob	25	7N	23E	7700

BIG WOOD RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
15F9	I	Camas Creeks Divide	11	2S	9E	5720
14F8	I	Dollarhide Summit	9	3N	15E	8400
14F1M	I	Galena	2	6N	15E	7440
14F12MPS	I	Galena Summit	5	6N	15E	8780
14F5	I	Graham Ranch	10	5N	17E	6280
14F7	I	Mascot Mine	8	4N	20E	7760
14F9	I	Mount Baldy	26	4N	17E	9000
14F11	I	Soldier Ranger Station	19	2N	14E	6100

LITTLE WOOD RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
13F4	I	Garfield Ranger Station	11	3N	21E	6560
13F5	I	Muldoon	25	3N	21E	6300
13F9R	I	Swede Peak	4	3N	21E	7640

FISH CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
13F10	I	Iron Mine Creek	32	3N	23E	6370
13F6	I	Telfer Ranch	12	2N	22E	6000

BOISE RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
15F4APS	I	Atlanta Summit	23	5N	10E	7500
15F2	I	Bad Bear	35	7N	6E	5500
16F4	I	Bogus Basin Road	32	5N	3E	5520
14F10	I	Couch Summit	9	2N	14E	6850
16F1	I	Deadman Gulch	29	7N	4E	5600
15F14PSR	I	Graham Guard Station	9	7N	10E	5690
15E9AP	I	Jackson Peak	7	8N	9E	7070
15F1MPSR	I	Moores Creek Summit	19	7N	7E	6100
15F6P	I	Prairie	13	2N	7E	4800
15F3A	I	Road Creek	5	5N	8E	5550
15FAPSR	I	Trinity Mountain	6	3N	9E	7780

CANYON CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
15F7	I	Bennett Mountain	7	2S	9E	6650
15F12	I	Little Camas Flat	21	1S	9E	4950

PAYETTE RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
16F2PS	I	Bogus Basin	16	5N	3E	6340
15E8PSR	I	Cozy Cove	17	11N	7E	5400
15E3	I	Crawford Ranger Station	21	14N	4E	4800
15E10	I	Deadwood Airstrip	8	11N	7E	5440
15E4AS	I	Deadwood Summit	23	14N	7E	6800
16E4	I	High Valley Summit	9	10N	2E	5170
15E1	I	Lake Fork	3	18N	4E	6000
16E1	I	Rock Flat Summit	1	18N	2E	5340
15D1	1	Secesh Summit	4	21N	4E	6520
15D2	1	Squaw Meadow	17	21N	4E	5900
16E3	I	Tripod Summit	17	11N	3E	5200

WEISER RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
16D1P	1	Boulder Creek	16	20N	1W	5500
16E2	I	Placer Creek	15 & 16	17N	3W	6000

MANN CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
16E9	I	Mann Creek	20	15N	5W	6080
16E8	I	Sturgill Ridge	28	15N	5W	6680
17E1	1	Robinson Creek Ridge	2	14N	6W	6220
17E2	I	Thorson Cabin	12	14N	6W	5320

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY
10J7R	RADIOACTIVE GAGE

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average (b)
MIDDLE SNAKE RIVER BASIN - NORTHSIDE						
BIG LOST RIVER						
Bear Canyon	7920	4/28	45	17.8	--	--
Copper Basin	7650	4/28	20	10.0	--	--
Fishpole Lake	9350	4/28	74	29.0	--	--
Lost-Wood Divide	7900	4/28	56	24.8	--	--
Stickney Mill	7500	4/28	9	3.8	--	--
White Knob	7700	4/28	27	10.8	0.0	--
LITTLE WOOD RIVER						
#Bear Canyon	7920	4/28	45	17.8	--	--
Garfield Ranger Station	6554	4/28	0	0.0	--	--
Muldoon	6300	4/28	0	0.0	--	--
Swede Peak	7650	4/28	42	19.6	--	15.0*
BIG WOOD RIVER						
#Couch Summit	6950	4/28	35	16.5	--	14.0
Galena	7300	4/27	38	18.6	0.0	15.5
Galena Summit	8795	4/27	78	30.7	--	26.0
Graham Ranch	6200	4/27	18	7.9	0.0	7.0*
#Lost-Wood Divide	7900	4/28	56	24.8	--	--
Mascot Mine	7900	4/28	39	17.1	--	--
Mount Baldy	9000	4/28	78	30.5	--	22.7
Soldier Ranger Station	6100	4/28	0	0.0	--	--
#Vienna Mine	8960	5/1	96	45.0	5.4	37.9*
BOISE RIVER						
Atlanta Summit	7500	5/1	86	40.3	1.2	36.1
Bad Bear	5500	4/27	10	4.0	0.0	5.0*
#Bogus Basin	6120	4/28	54	24.3	00	23.2
Bogus Basin Road	5360	4/28	0	0.0	--	0.0
Couch Summit	6950	4/28	35	16.5	--	14.0
Graham Guard Station	5690	5/1	18	8.5	0.0	--
Jackson Peak	7000	5/1	72	35.0	0.0	31.8*
Moores Creek Summit	6100	4/27	80	35.8	1.5	31.9
#Soldier Ranger Station	6100	4/28	0	0.0	--	--
Trinity Mountain	7780	5/1	98	50.4	0.0	44.2*
#Vienna Mine	8960	5/1	96	45.0	5.4	37.9*
PAYETTE RIVER						
#Big Creek Summit	6600	4/26	90	42.8	5.0	37.0
Bogus Basin	6120	4/28	54	24.3	--	23.2
#Brundage Mountain	7560	4/27	122	55.0	6.4	51.9*

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

USDA SCS PORTLAND OREGON 1976 M7-0-22023P

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (Inches) Last Year	PAST RECORD: Water Content (Inches) Average (b)
Cozy Cove	5400	5/1	12	5.2	0.0	9.8
Crawford Ranger Station	4800	4/26	0	0.0	0.0	0.0
Deadwood Airstrip	5440	5/1	10	3.8	0.0	7.3*
Deadwood Summit	7000	5/1	98	48.9	0.9	48.4*
#Jackson Peak	7000	5/1	72	35.0	0.0	31.8*
Lake Fork	6000	4/27	34	14.7	0.0	--
Rock Flat Summit	5200	4/27	42	18.7	0.0	16.5*
Secesh Summit	6520	4/26	71	37.4	2.3	--
Squaw Meadow	5800	4/26	69	35.0	0.0	36.5*
WEISER RIVER						
Boulder Creek	5500	4/28	27	12.2	--	15.7*
MIDDLE SNAKE RIVER BASIN - SOUTHSIDE						
RAFT RIVER						
Howell Canyon	8000	4/26	52	25.8	0.0	23.6*
SALMON FALLS CREEK						
#Bear Creek Nev.	7800	4/24	57	27.7	8.2	20.0*
Deadline	6900	4/29	32	15.4	0.0	19.5
Goat Creek Nev.	8800	4/29	53	22.6	5.5	20.1
#Hummingbird Springs Nev.	8945	Not Measured			5.5	26.2
Magic Mountain	6700	4/29	32	15.9	0.0	15.9
#Pole Creek R.S. Nev.	8330	4/29	52	21.0	1.6	22.7
BRUNEAU RIVER						
Bear Creek Nev.	7800	4/24	57	27.7	8.2	20.0*
Pole Creek Rgr. Sta. Nev.	8330	4/29	52	21.0	1.6	22.7
#Seventy-six Creek (A) Nev.	7100	4/24	18	9.1	0.0	--
OWYHEE RIVER						
#Bear Creek Nev.	7800	4/24	57	27.7	8.2	20.0*
#Seventy-six Creek (A) Nev.	7100	4/24	18	9.1	0.0	--
Silver City	6400	5/4	20	8.3	0.0	8.9*
South Mountain	6340	4/30	18	8.8	0.0	7.1*

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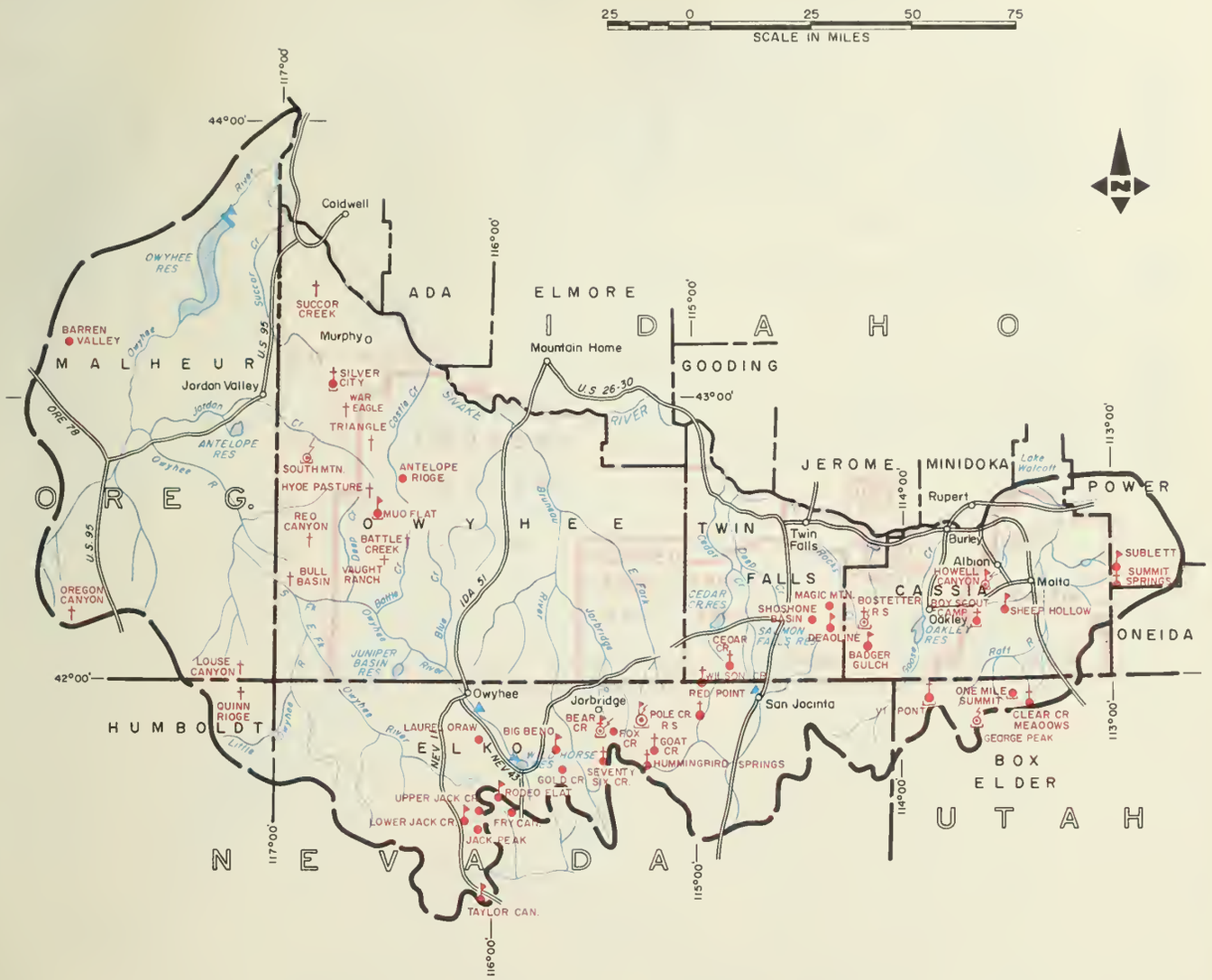
*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

MIDDLE SNAKE RIVER BASIN
SOUTHSIDE



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- ● Snow Course
- ⊙ Snow Course and Snow Pressure Pillow
- ○ Snow Pressure Pillow
- † Aerial Snow Depth Gage
- ⚑ Soil Moisture Station
- ϥ Temperature Gage
- ⌴ Precipitation Gage
- ϟ Radio Telemetry

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MIDDLE SNAKE RIVER BASIN SOUTHSIDE

RAFT RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR ANO	RGE. LONG.	ELEV.
13G2AP	I	Boy Scout Camp	8	14S	24E	7760
13H2A	U	Clear Creek Meadows	26	14N	14W	9050
13H4SP	U	George Peak	4	13N	14W	9000
13G1MP	I	Howell Canyon	2	13S	24E	8000
13H1P	U	One Mile Summit	19	14N	14W	7330
13G5M	I	Sheep Hollow	4	14S	24E	6200
12G8M	I	Sublett	8	12S	30E	6000
12G9A	I	Summit Springs	15	13S	30E	6400

GOOSE - TRAPPER CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR ANO	RGE. LONG.	ELEV.
14G3M	I	Badger Gulch	24	15S	19E	6660
14G1AP	I	Bostetter Ranger Station	35	14S	19E	7500
13H3AP	U	Vi Pont	17	14N	17W	7670

SALMON FALLS CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR ANO	RGE. LONG.	ELEV.
14G5A	I	Cedar Creek	25	15S	13E	7000
14G4M	I	Deadline	25	14S	18E	6900
15H13A	N	Goat Creek	31	46N	60E	8800
14G2	I	Magic Mountain	14	14S	18E	6700
15H18A	N	Red Point	15	47N	61E	7940
14G6	I	Shoshone Basin	24	14S	17E	5740
15G2A	I	Wilson Creek	24	16S	12E	7500

BRUNEAU RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR ANO	RGE. LONG.	ELEV.
15H1MAP	N	Bear Creek	31	46N	58E	7800
15H2	N	Fox Creek	33	46N	58E	6800
15H15A	N	Hummingbird Springs	6	45N	60E	8950
15H14MP	N	Pole Creek Ranger Station	13	46N	59E	8330

OWYHEE RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR ANO	RGE. LONG.	ELEV.
16G6	I	Antelope Ridge	20	8S	1E	5900
18F5	O	Barren Valley	26	17S	38E	4200
16G9a	I	Battle Creek	10	11S	1E	5700
15H4M	N	Big Bend	30	45N	56E	6700
16G10a	I	Bull Basin	19	12S	5W	5600
15H7	N	Fry Canyon	31	43N	54E	6700
15H5	N	Gold Creek	31	45N	56E	6600
16G5a	I	Hyde Pasture	SE¼ 31	8S	2W	5800
16H4	N	Jacks Peak	28	42N	53E	8420
16H5	N	Laurel Draw	20	45N	53E	6700
17G4a	O	Louse Canyon	27	40S	44E	6440
16H1M	N	Lower Jack Creek	18	42N	53E	6800
16G7MP	I	Mud Flat	34	9S	2W	5500
17G5a	O	Oregon Canyon	9	40S	40E	6950
17H6a	N	Quinn Ridge	9	47N	41E	6300
16G11ap	I	Red Canyon	32	11S	4W	6650
15H6M	N	Rodeo Flat	36	43N	53E	6800
16F3AP	I	Silver City	6	5S	3W	6400
16G1PSR	I	South Mountain	35	7S	5W	6340
16F6a	I	Succor Creek	25	3S	5W	6100
15H9M	N	Taylor Canyon	35	39N	53E	6200
16G4a	I	Triangle	N. 35	7S	3W	5150
16H2	N	Upper Jack Creek	9	42N	53E	7250
16G12a	I	Vaught Ranch	10	11S	1W	5950
16G13a	I	War Eagle	20	5S	3W	7700

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY
10J7p	STORAGE PRECIPITATION GAGE ONLY
10J7R	RADIOACTIVE GAGE

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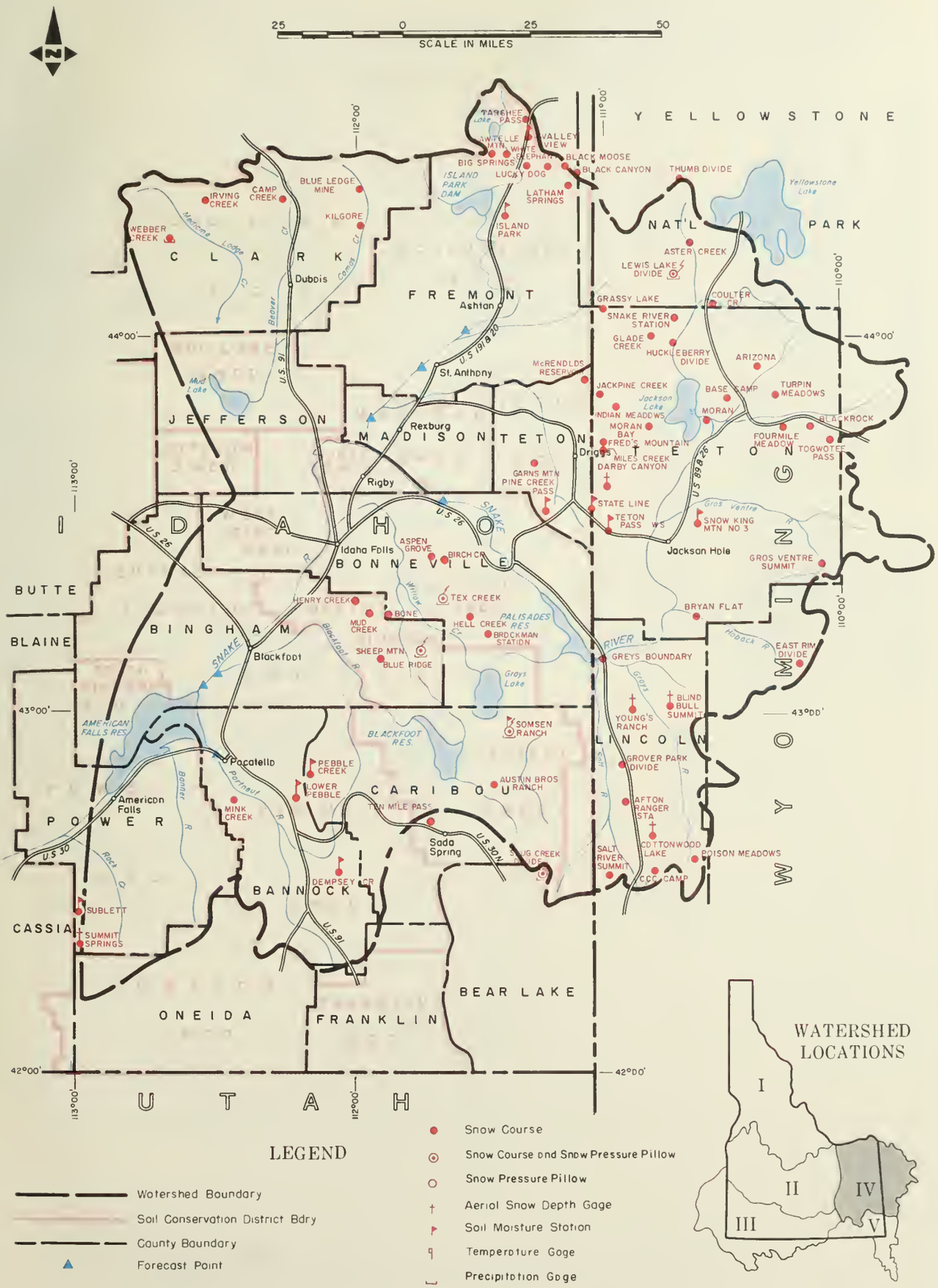
UPPER SNAKE RIVER BASIN



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
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- ▲ Forecast Point
- ● Snow Course
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- ○ Snow Pressure Pillow
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- ⚲ Temperature Gage
- ⌴ Precipitation Gage
- ⚡ Radio Telemetry

ID-4a

INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
UPPER SNAKE RIVER BASIN						
SNAKE RIVER - WYOMING						
10G4	Wy	Afton Ranger Station	30	32N	118W	6200
10F1	Wy	Arizona	3	46N	115W	6850
10E8	Wy	Aster Creek	44° 17'		110° 38'	7700
10F2	Wy	Base Camp	20	46N	113W	6900
10F7	Wy	Blackrock	4	44N	111W	8600
10G2A	Wy	Blind Bull	6	34N	115W	8750
10F14	Wy	Bryan Flat	9	38N	115W	6250
10G7	Wy	CCC Camp	9	29N	118W	7500
10G5A	Wy	Cottonwood Lake	25	31N	118W	7500
10E10	Wy	Coulter Creek	44° 09'		110° 33'	7600
10F17MP	Wy	East Rim Divide #2	32	37N	111W	7950
10F6	Wy	Four Mile Meadows	35	45N	112W	7770
10E13	Wy	Glade Creek	12	48N	116W	7200
10F18	Wy	Greys Boundary	33	37N	118W	5800
10F19	Wy	Gros Ventre Summit	36	40N	111W	8750
10G3	Wy	Grover Park Divide	27	33N	118W	7500
10E14	Wy	Huckleberry Divide	32	48N	115W	7300
10E9PS	Wy	Lewis Lake Divide	44° 13'		110° 40'	7900
10F4MP	Wy	Moran	8 & 17	45N	114W	6800
10F3	Wy	Moran Bay	14	45N	116W	6800
10G6	Wy	Poison Meadows	29	30N	116W	8500
10G8P	Wy	Salt River Summit	32	29N	118W	7900
10E12MP	Wy	Snake River Station	9	48N	115W	6780
10F20M	Wy	Snow King Mountain #3	4	40N	117W	7600
10E7	Wy	Thumb Divide	44° 22'		110° 35'	7900
10F9MP	Wy	Togwotee Pass	29	44N	110W	9600
10F5	Wy	Turpin Meadows	14	45N	112W	6930
10G1A	Wy	Young's Ranch	26	34N	116W	6530
HENRYS FORK RIVER						
11E9	I	Big Springs	4	13N	44E	6400
11E18	I	Black Canyon	11	13N	45E	7850
11E19	I	Black Moose	33	14N	45E	8125
10E15	Wy	Grassy Lake	6	48N	117W	7230
11E10M	I	Island Park	28	13N	43E	6290
11E16	I	Latham Springs	9	13N	45E	7650
11E14	I	Lucky Dog	2	13N	45E	6900
11E32	I	Sawtell Mountain	7	14N	43E	8720
11E34	I	Targhee Pass	32	16N	44E	7000
11E8M	I	Valley View	7	15N	44E	6740
11E36	I	White Elephant	17	14N	43E	7700
TETON RIVER						
10F21	Wy	Darby Canyon	28	43N	118W	8250
10F22	Wy	Freds Mountain	12	44N	118W	8150
11F13	I	Garns Mountain	20	4N	44E	8300
10F25	Wy	Indian Meadows	31	46N	117W	8240
10F26	Wy	Jackpine Creek	15	46N	118W	7350
11F12	I	McRenolds Reservoir	5	7N	46E	6800
10F27	Wy	Miles Creek	13	44N	118W	7300
11F2M	I	Pine Creek Pass	24	3N	44E	6750
11F1M	I	State Line	32	3N	46E	6650
10F13	Wy	Teton Pass W. S.	24	41N	118W	8400
CAMAS - BEAVER CREEK						
11E11	I	Blue Ledge Mine	27	13N	38E	6700
12E3	I	Camp Creek	21	13N	36E	6800
11E12	I	Kilgore	6	12N	39E	6200
MEDICINE LODGE CREEK						
12E4	I	Irving Creek	20	13N	33E	7035
12E5	I	Webber Creek	23	12N	32E	6700
WILLOW CREEK						
11F10	I	Aspen Grove	36	2N	41E	6500
11F3	I	Birch Creek	36	2N	41E	6800
11F17I	I	Blue Ridge	35	2S	39E	6800
11F8	I	Bone	29	1S	40E	6250
11F16	I	Brockman Station	19	2S	43E	6430
11F15	I	Hell Creek	27	1S	42E	7100
11F14	I	Mud Creek	3	2S	39E	7150
11F11R	I	Sheep Mountain	30	2S	41E	6570
11F5R	I	Tex Creek	36	1N	42E	6650
SAND CREEK						
11F6	I	Henry Creek	7	1S	39E	5650
BLACKFOOT RIVER						
11G3	I	Austin Brothers Ranch	28	7S	43E	6400
11G5PS	I	Slug Creek Divide	15	10S	44E	7225
11G1MS	I	Somsen Ranch	25	5S	43E	7000
11G29	I	Ten Mile Pass	8	8S	41E	6250
PORTNEUF RIVER						
12G5	I	Dempsey Creek	18	10S	38E	6100
12G6M	I	Lower Pebble	7	8S	38E	5800
12G1	I	Mink Creek	33	7S	34E	6300
12G2M	I	Pebble Creek	34	7S	37E	6550

LEGEND

Numbering System (exomple)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY.
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average (b)
UPPER SNAKE RIVER BASIN						
HENRYS FORK RIVER						
Big Springs		6400	4/28	38	20.6	0.0	17.1*
Grassy Lake	Wyo.	7230	4/27	79	41.6	7.0	34.3*
Island Park		6315	4/28	23	12.5	0.0	10.2*
Sawtell Mountain		8720	4/28	98	46.2	5.5	38.1*
Targhee Pass		7000	4/28	36	17.8	0.0	15.4*
Valley View		6500	4/28	23	11.6	0.0	14.2*
White Elephant		7700	4/28	66	33.2	0.0	--
TETON RIVER						
Darby Canyon	Wyo.	8250	5/1	62	25.6	10.3	--
Freds Mountain	Wyo.	8150	5/1	59	30.1	8.5	--
Garns Mountain		8300	5/1	91	43.7	8.7	--
Indian Meadows	Wyo.	8240	5/1	86	42.7	13.0	--
Jackpine Creek	Wyo.	7350	5/1	44	21.4	6.9	--
McRenolds Reservoir		6800	5/1	37	17.4	4.1	--
Miles Creek	Wyo.	7300	5/1	11	4.6	0.0	--
Phillips Bench	Wyo.	8200	4/28	105	41.4	15.0	--
Pine Creek Pass		6750	5/1	23	9.7	0.0	12.5*
State Line		6650	5/1	0	0.0	0.0	8.4*
Teton Pass W.S.	Wyo.	8400	4/28	Delayed		7.8	--
WILLOW CREEK						
Aspen Grove		6600	4/27	15	6.2	--	--
Birch Creek		6800	4/27	0	0.0	--	--
Blue Ridge		6800	4/27	17	8.5	--	--
Bone		6200	4/27	0	0.0	--	--
Brockman Station		6430	4/27	0	0.0	--	--
Hell Creek		7100	4/27	9	4.7	--	--
Mud Creek		7150	4/27	23	11.3	--	--
Sheep Mountain		6510	4/27	0	0.0	--	--
Tex Creek		6700	4/27	0	0.0	--	--
SAND CREEK						
Henry Creek		5650	4/27	0	0.0	--	--
BLACKFOOT RIVER						
Slug Creek Divide		7225	4/27	29	13.8	--	--

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

USDA-SCS PORTLAND OREGON 1974 M7-0-22023P

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
GREAT BASIN						
BEAR RIVER						
Emigrant Summit	7350	4/25	61	30.4	2.1	23.6*
Emigration Canyon	6500	4/25	0	0.0	--	--
Montpelier Creek						
Giveout	6840	4/27	26	10.6	--	6.7*
Little Beaver	6970	4/27	31	13.4	--	11.6*
Lower Home Canyon	7500	4/28	30	13.4	--	--
Montpelier Creek	6570	4/27	0	0.0	--	--
Upper Home Canyon	8500	4/28	71	32.2	--	--
Whiskey Flat	6985	4/27	8	3.4	--	3.2*
Mink Creek						
Christensen Ranch	5600	4/25	0	0.0	--	0.3
Dry Basin	7900	4/25	79	39.6	4.6	29.9*
#Emigrant Summit	7350	4/25	61	30.4	2.1	23.6*
Horseshoe Basin	8000	4/25	72	37.0	4.1	29.2*
Liberty Spring	8600	4/25	118	59.1	11.8	44.6*
Strawberry Creek	5800	4/25	0	0.0	--	2.6
Strawberry Mink Divide	6800	4/25	43	22.4	--	16.9
Cub River						
Cub River R.S.	5400	4/25	0	0.0	0.0	1.0
#Franklin Basin	8000	4/25	68	33.5	3.0	--
Willow Flat	6100	4/25	10	4.2	0.0	4.0*
Worm Creek	6660	4/25	29	14.3	0.0	--

USDA SCS PORTLAND OREGON 1974 M7-0-22023P

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

GREAT BASIN

LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and Snow Pressure Pillow
- Snow Pressure Pillow
- Aerial Snow Depth Gage
- Soil Moisture Station
- Temperature Gage
- Precipitation Gage
- Radio Telemetry

INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.

GREAT BASIN

BEAR RIVER

10G11	Wy	Big Park	7	27N	117W	8700
11H13MP	U	Dry Bread Pond	19	8N	4E	8230
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6500
11H7P	U	Garden City Summit	35	14N	4E	7600
10J6P	U	Burt's-Miller Ranch	19	3N	10E	7900
10J7P	U	Hayden Fork	1	1S	9E	9300
10G12	Wy	Kelly Ranger Station	13	26N	118W	8200
11H12P	U	Monte Cristo R. S.	3	8N	4E	8960
10G10	Wy	Piney LaBarge	19	29N	114W	8820
10J17P	U	Stillwater Camp	32	2N	10E	8550
10J28P	U	Whitney G. S.	4	1N	9E	9300

MONTPELIER CREEK

11G16	I	Giveout	2	12S	45E	6840
11G20	I	Little Beaver	26	11S	45E	6970
11G27	I	Lower Home Canyon	17	12S	45E	7500
11G18	I	Montpelier Creek	22	12S	45E	6570
11G26	I	Upper Home Canyon	31	11S	45E	8500
11G21	I	Whiskey Flat	26	11S	45E	6985

MINK CREEK

11G11	I	Christensen Ranch	27	13S	41E	5600
11G14A	I	Dry Basin	30	13S	42E	7900
11G6MP	I	Emigrant Summit	21	12S	42E	7350
11G15A	I	Horseshoe Basin	31	13S	42E	8000
11G13A	I	Liberty Spring	7	13S	42E	8600
11G9M	I	Strawberry Creek	9	13S	41E	5800
11G10	I	Strawberry Mink Divide	14	13S	41E	6800

CUB RIVER

11G12	I	Cub River Ranger Station	5	15S	41E	5400
11G8S	I	Franklin Basin	1	16S	41E	8000
11G4P	I	Willow Flat	2	15S	41E	6100
11G28	I	Worm Creek	28	14S	41E	6660

MALAD RIVER

12G13	I	Cliff Canyon	13	12S	35E	7200
12G12	I	Daniels Creek	11	12S	35E	6400
12G4	I	Dry Creek Flat	28	13S	37E	6480
12G11	I	Lower Elkhorn	30	12S	36E	7000
12G3	I	Oxford Mountain	27	13S	37E	6800
12G10	I	Upper Elkhorn	25	12S	35E	7100

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
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10J7R	RADIOACTIVE GAGE

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IMPORTANT NOTICE

WATER SUPPLY OUTLOOK FOR IDAHO

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WATER SUPPLY OUTLOOK FOR IDAHO

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U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
JUNE 1, 1978

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-manthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a cantinuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey ond soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in o West-wide basic data summary and published about October 1 of eoch year.

COVER PHOTO: SOME OF THE DATA IN THIS REPORT HAVE BEEN RECEIVED THROUGH THE SOIL CONSERVATION SERVICE'S NEW SNOTEL SYSTEM WHICH TRANSMITS INFORMATION VIA THE SPACE AGED METEOR BURST METHOD FROM DATA SITES TO MASTER STATIONS LIKE THESE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrotors, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Roam 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, Phoenix, Arizono 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idoho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.

USDA-SCS-PORTLAND, OR 1977

WATER SUPPLY OUTLOOK for IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by
R. M. DAVIS
ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

Released by
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STATE CONSERVATIONIST
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BOISE, IDAHO

In Cooperation with
C. STEPHEN ALLRED
DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

USDA-SCS-PORTLAND, OR. 1976 M7-L-220238

Report prepared by
JACK A. WILSON, Snow Survey Supervisor
GERALD A. BEARD, Asst. Snow Survey Supervisor
KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL SUMMARY FOR JUNE 1, 1978

Water supplies for Idaho are forecast to be generally adequate for the 1978 irrigation season. Major snowmelt is starting in the high mountainous areas and streamflow is increasing in an orderly manner. Major reservoirs are expected to fill or contain adequate supplies for irrigation demands.

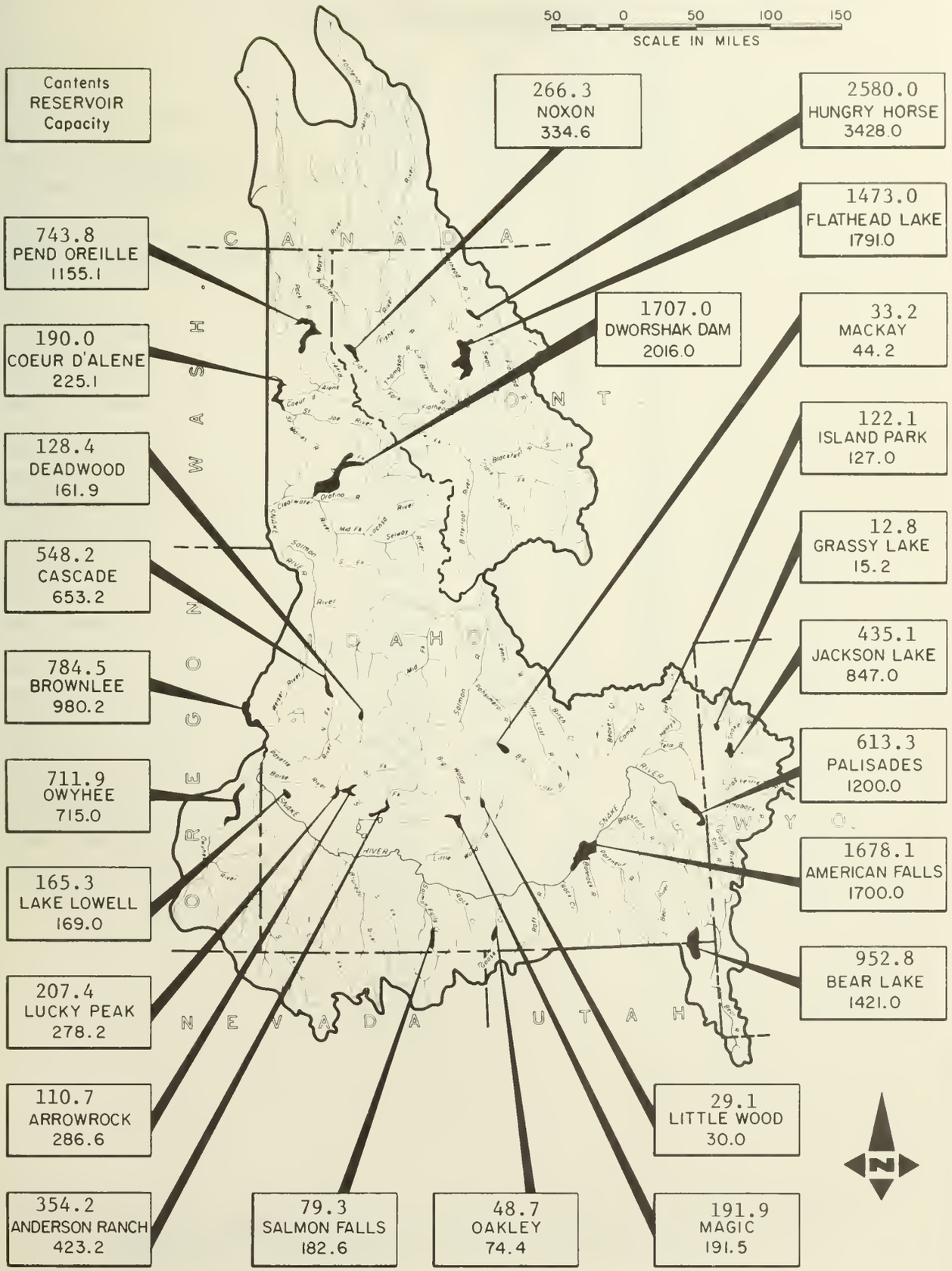
Precipitation was well above normal during May in Northern and Eastern Idaho and below normal in the South and Western part of the state. Temperatures in general were slightly below average.

This report carries the June 1 and supplemental measurements for 1978 and corrections of previously published 1978 data.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

June 1, 1978



SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (inches)	THIS YEAR: Water Content (inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average 1/

JUNE 1, 1978 MEASUREMENTS

Atlanta Summit	7500	5/30	59	30.7	--	--
Bear Canyon	7920	5/30	15	6.2	--	--
Big Creek Summit	6600	5/31	53	29.6	--	--
Bogus Basin	6120	6/1	0	0.0	--	--
Brundage Mountain	7560	5/31	91	46.8	--	--
Coolwater Mountain	6200	6/1	52	21.0	--	--
Copper Basin	7650	5/30	0	0.0	--	--
Crater Meadows	6100	6/1	60	29.6	--	--
Crawford Ranger Station	4800	5/31	0	0.0	--	--
Darby Canyon	8250	6/4	35	16.6	--	--
Elk Butte	5550	6/1	0	0.0	--	--
Fishpole Lake	9350	5/30	66	32.2	--	--
Freds Mountain	8000	6/4	29	15.0	--	--
Galena Summit	8795	5/26	56	26.2	--	--
Garns Mountain	8300	6/4	70	37.7	--	--
Goat Lake	6600	6/1	91	40.8	--	--
Granite Peak	6000	6/1	58	24.8	--	--
Hemlock Butte	5500	6/1	60	24.4	--	--
Indian Meadows	8200	6/4	69	36.6	--	--
Jackpine Creek	7500	6/4	0	0.0	--	--
Jackson Peak	7070	5/30	45	24.3	--	--
Lake Fork	6000	5/30	0	0.0	--	--
Lost Lake	6000	6/1	79	35.8	--	--
Lost Wood Divide	7900	5/30	24	11.2	--	--
Lookout	5250	5/30	29	14.8	--	--
Mascot Mine	7900	5/30	0	0.0	--	--
Moores Creek Summit	6100	6/1	35	17.5	--	8.1
Orogrande Mountain	7800	6/1	95	38.0	--	--
Schweitzer Bowl	4500	5/31	0	0.0	--	--
Schweitzer Ridge	6100	5/31	72	39.7	--	--
Secesh Summit	6600	5/31	36	20.1	--	--
Stickney Mill	7500	5/30	0	0.0	--	--
Squaw Meadow	5800	5/31	28	14.8	--	--
Trinity Mountain	7780	5/30	67	36.5	--	--
Vienna Mine	8960	5/30	71	37.6	--	--

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

USDA SCS PORTLAND OREGON 1974 WT-0-22023

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average b

SUPPLEMENTAL MEASUREMENTS

DECEMBER 1, 1977						
Willow Flat	6100	11/30	18	3.9	--	--
DECEMBER 15, 1977						
Above Burke	4100	12/12	34	7.7	--	--
Lookout	5120	12/12	62	14.3	--	--
Moores Creek Summit	6100	12/16	55	15.0	--	--
JANUARY 1, 1978						
Benton Meadow	2370	1/3	23	5.3	--	--
Kilgore	6200	12/29	17	4.2	--	--
JANUARY 15, 1978						
Atlanta Summit	7500	1/13	89	25.4	1.7	--
Bad Bear	5500	1/13	38	10.8	--	--
Graham Guard Station	5690	1/13	56	15.0	1.3	--
Jackson Peak	7070	1/13	81	24.2	2.6	--
Moores Creek Summit	6100	1/13	82	23.7	2.1	--
Mount Baldy	9000	1/13	51	13.6	1.8	--
Pierce Ranger Station	3170	1/16	25	6.8	--	--
Trinity Mountain	7780	1/13	96	33.1	2.1	--
Vienna Mine	8960	1/13	90	28.0	2.9	--
FEBRUARY 1, 1978						
Mosquito Ridge	5110	2/6	93	30.6	8.6	--
FEBRUARY 15, 1978						
Atlanta Summit	7500	2/16	119	37.5	1.8	--
Bad Bear	5500	2/14	52	15.9	0.0	--
Bogus Basin	6120	2/15	81	22.8	2.2	--
Bogus Basin Road	5360	2/15	36	10.6	0.0	--
Cozy Cove	5400	2/16	62	19.0	--	--
Galena	7300	2/14	71	21.4	0.0	--
Galena Summit	8795	2/14	82	25.2	2.2	--
Graham Guard Station	5690	2/16	67	21.2	1.2	--
Jackson Peak	7070	2/16	101	33.7	2.0	--

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

USDA SCS PORTLAND OREGON 1974 M7-0-22023P

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average (b)
FEBRUARY 15, 1978 (Cont'd.)						
Moores Creek Summit	6100	2/14	107	34.2	2.2	--
Mount Baldy	9000	2/13	81	23.2	1.8	16.4
Pierce Ranger Station	3170	2/15	33	9.6	3.0	--
Trinity Mountain	7780	2/16	128	44.9	1.8	--
Vienna Mine	8960	2/16	109	37.7	2.9	--
MARCH 15, 1978						
Above Burke	4100	3/13	58	20.7	12.2	--
Atlanta Summit	7500	3/15	105	39.5	5.9	--
Bad Bear	5500	3/14	44	16.8	2.9	--
Bogus Basin	6120	3/16	73	26.2	6.8	--
Bogus Basin Road	5360	3/16	19	7.1	3.0	--
Crater Meadows	6100	3/15	123	39.5	--	--
Crooked Fork	3600	3/14	45	14.4	--	--
Elk Butte	5550	3/15	94	28.9	--	--
Fish Lake Airstrip	5000	3/15	114	36.5	--	--
Fourth of July Summit	3200	3/13	27	8.8	5.6	--
Galena	7300	3/14	60	21.2	2.8	--
Galena Summit	8795	3/14	74	25.9	4.6	--
Graham Guard Station	5690	3/15	56	21.7	4.0	--
Hemlock Butte	5500	3/15	130	41.9	--	--
Jackson Peak	7070	3/15	92	35.2	7.4	--
Lookout	5120	3/13	89	34.2	15.4	--
Lolo Pass	5240	3/14	88	32.5	--	--
Lost Lake	6000	3/15	146	45.9	--	--
Mascot Mine	7900	3/14	48	16.6	--	--
Moores Creek Summit	6100	3/14	97	36.4	7.2	--
Mount Baldy	9000	3/13	75	26.6	3.6	19.7
Pierce Ranger Station	3170	3/15	29	10.0	6.0	11.1
Prairie	4900	3/15	13	4.5	0.6	--
Rock Flat Summit	5200	3/17	57	20.6	--	--
Savage Pass	6170	3/14	86	29.0	--	--
Shanghai Summit	4600	3/15	76	23.2	--	--
Sherwin	3200	3/15	29	8.7	5.2	14.2
Trinity Mountain	7780	3/15	119	48.0	6.2	--
Vienna Mine	8960	3/15	100	39.8	6.4	--
APRIL 15, 1978						
Atlanta Summit	7500	4/14	92	38.7	6.3	--
Bad Bear	5500	4/13	20	8.1	0.0	--
Galena	7300	4/14	42	19.6	0.0	--
Galena Summit	8795	4/14	74	28.9	5.4	--
Graham Guard Station	5690	4/14	30	13.9	0.0	--
Jackson Peak	7070	4/14	76	35.6	6.4	--
Lookout	5120	4/14	69	30.3	15.3	--

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

USDA SCS PORTLAND OREGON 1978 M7-0-22023P

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average 1/
APRIL 15, 1978 (Cont'd.)						
Moores Creek Summit	6100	4/13	83	35.9	6.6	31.7
Mosquito Ridge (A)	5110	4/16	68	26.9	--	--
Mount Baldy	9000	4/13	70	27.2	--	--
Pierce Ranger Station	3170	4/12	1	0.6	1.3	--
Prairie	4900	4/15	0	0.0	0.0	--
Trinity Mountain	7780	4/14	102	48.2	6.9	--
Vienna Mine	8960	4/14	94	43.1	8.7	--
MAY 1, 1978						
Black Canyon	7850	5/1	82	41.6	--	--
Black Moose	8125	5/1	89	44.4	--	--
Latham Springs	7630	5/1	51	37.2	--	--
Lucky Dog	6900	5/1	39	19.8	--	--
MAY 15, 1978						
Atlanta Summit	7500	5/19	70	35.1	--	--
Bad Bear	5500	5/14	0	0.0	--	--
Bogus Basin	6120	5/15	29	14.0	--	--
Crater Meadows	6100	5/18	72	33.6	--	--
Elk Butte	5550	5/18	24	9.2	--	--
Galena	7300	5/15	10	5.5	--	--
Galena Summit	8795	5/15	63	29.4	--	--
Hemlock Butte	5500	5/18	79	31.6	--	--
Jackson Peak	7070	5/19	55	28.9	--	--
Lookout	5120	5/15	43	22.5	0.4	--
Lost Lake	6000	5/18	96	42.0	--	--
Moores Creek Summit	6100	5/14	56	26.7	--	--
Trinity Mountain	7780	5/14	85	44.5	--	--
Vienna Mine	8960	5/19	85	44.3	--	--
CORRECTIONS TO PREVIOUSLY PUBLISHED 1978 DATA						
MARCH 1, 1978						
Antelope Ridge	5900	3/3	26	9.2	0.2	6.1*
Garns Mountain	8300	3/4	106	38.7	8.8	--
Roland Summit (A)	5200	3/2	86	29.9	10.0	31.3*
MAY 1, 1978						
Cedar Creek (A)	7000	5/8	0	0.0	--	--
Hemlock Butte	5500	5/2	90	35.4	16.8	54.4*
Hummingbird Spring (A)	8950	5/8	62	28.8	5.5	26.2
Wilson Creek (A)	7500	5/8	0	0.0	--	--

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

USDA SCS PORTLAND OREGON 1974 M/-0-22023P

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Deportment of Water Resources
State of Idoho Deportment of Fish and Game
University of Idoho
Idoho Stote University
Montano Agricultural Experiment Station
Montono State Woter Conservation Boord
Montono Cooperative Snow Surveys
Nevodo Cooperotive Snow Surveys
Oregon Agriculturol Experiment Stotion
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermosters
Utoh Cooperative Snow Surveys
Wyoming Cooperotive Snow Surveys

Federol:

U.S. Army Engineers

U.S. Department of Agriculture
Forest Service
Agricultural Reseorch Service
Stotisticol Reporting Service

U.S. Deportment of Commerce
NOAA, Notionol Weother Service

U.S. Department of the Interior
Bonneville Power Administration
Bureou of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
Notionol Pork Service
Bureau of Land Manogement

PUBLIC UTILITIES

The Montano Power Company
Washington Woter Power Compony
Idoho Power Company
Utoh Power and Light Compony

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Bloine Soil Conservation District
Boise Project Board of Control
Idoho Water District #01
Little Wood River Irrigation District
Monn Creek Irrigation District
Solmon Falls Creek Irrigation Compony
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Volley Soil Conservotion District
Portneuf Soil ond Woter Conservotion District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
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Water Supply Outlook For Idaho

SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
JAN. 1, 1979

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TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: VIEW OF A SNOTEL DATA SITE IN THE SNOWY RANGE IN WYOMING. TALL CYLINDRICAL DEVICE IS A PRECIPITATION GAGE. SNOW PILLOWS ON THE GROUND NOT VISIBLE DUE TO SNOW COVER. SHELTER HOUSE, ANTENNA TOWER, ANTENNA, AND TEMPERATURE UNIT ARE VISIBLE BEHIND THE PRECIPITATION GAGE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R.M. DAVIS

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

C. STEPHEN ALLRED

DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

JACK A. WILSON, Snow Survey Supervisor
GERALD A. BEARD, Asst. Snow Survey Supervisor
KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL SUMMARY FOR JANUARY 1, 1979

Snow water equivalent varies from a low of 34 percent of average on the Little Wood River watershed to 126 percent on the Cub River drainage.

In general, snow accumulation in the upper Snake River drainage is 115 percent of average; the southern tributaries of the Snake River, 75 percent; the northern tributaries 55 percent; the Clearwater-Spokane River 110 percent; and the Priest River watershed 53 percent of normal.

The National Weather Service reports that precipitation and temperatures were both below normal for Idaho in December.

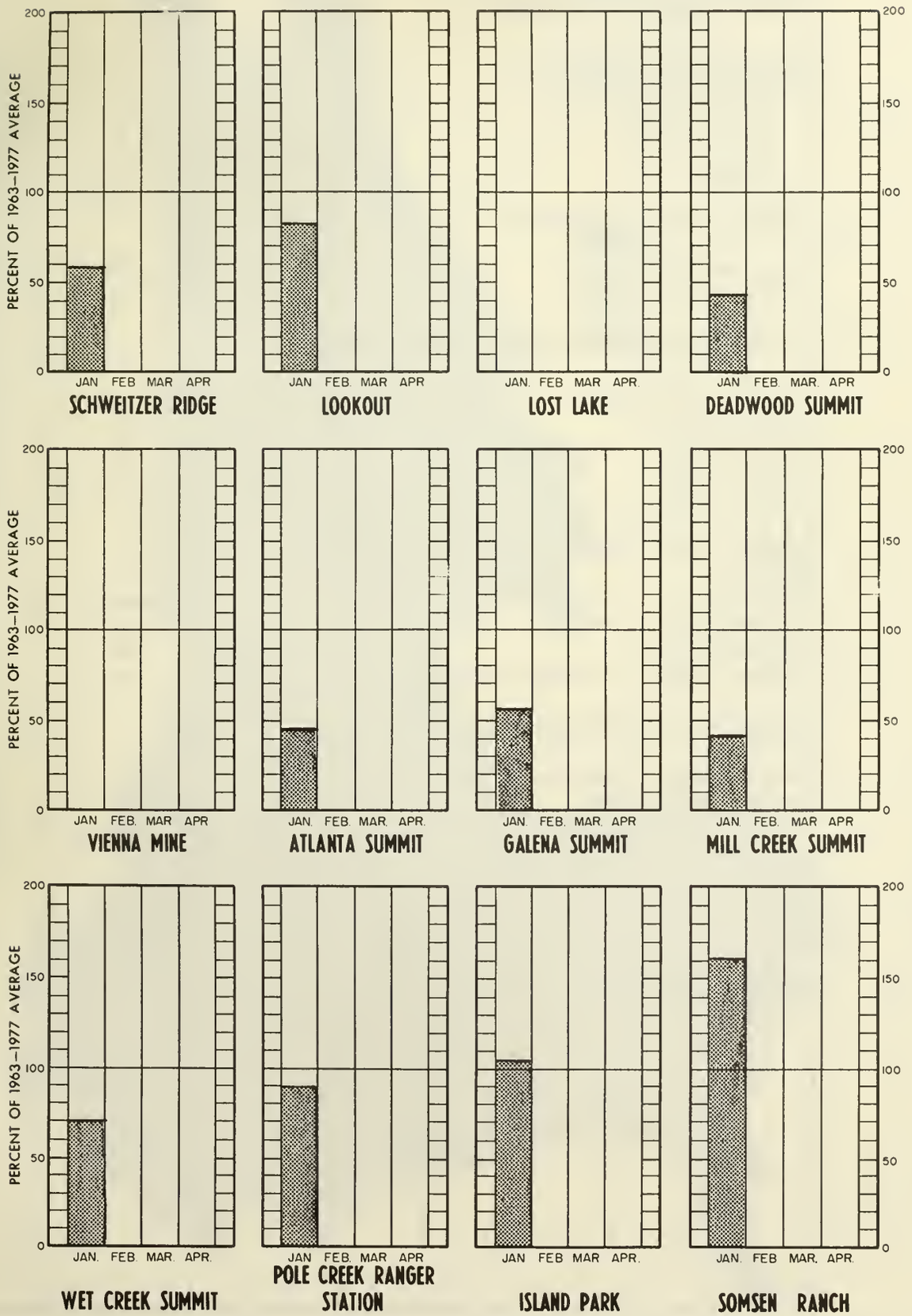
The weather across Idaho left a confusing precipitation pattern with the state as a whole averaging 75 percent of normal. Porthill received only 26 percent while Kellogg received 98 percent; and McCall was 57 percent while Grangeville got 138 percent. This marks the third month in a row in which the average precipitation has been below normal.

Temperatures were 5° F. to 7° F. below normal for most of Idaho in December with the very northern portion 10° F. below average.

Reservoir storage is good with carryover contents at 102 percent of average for 15 irrigation reservoirs across southern Idaho.

SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1963 – 1977 15 Year Average

JANUARY 1, 1979



COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Pend Oreille River	39	73	116
Clark Fork River	30	73	125
Flathead River	9	74	96
Priest River	4	38	53
Spokane River	4	88	114
LOWER SNAKE RIVER BASIN			
Clearwater River	4-5	87	109
Salmon River	11-12	43	60
MIDDLE SNAKE RIVER BASIN - Northside			
Little Wood River	3-4	33	34
Big Wood River	6-9	37	44
Boise River	9-11	40	53
Payette River	11-12	47	58
Weiser River	1	44	51
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River	1	45	61
Salmon Falls Creek	4	99	91
Bruneau River	2	82	74
Owyhee River - Jordan Creek	3	70	76
UPPER SNAKE RIVER BASIN			
Snake Basin - Wyoming	15	74	117
Henrys Fork River	4-7	69	100
Teton River	2-9	80	120
Blackfoot River	2	81	119
GREAT BASIN			
Montpelier Creek	4	68	113
Mink Creek	1	63	115
Cub River	2	70	126

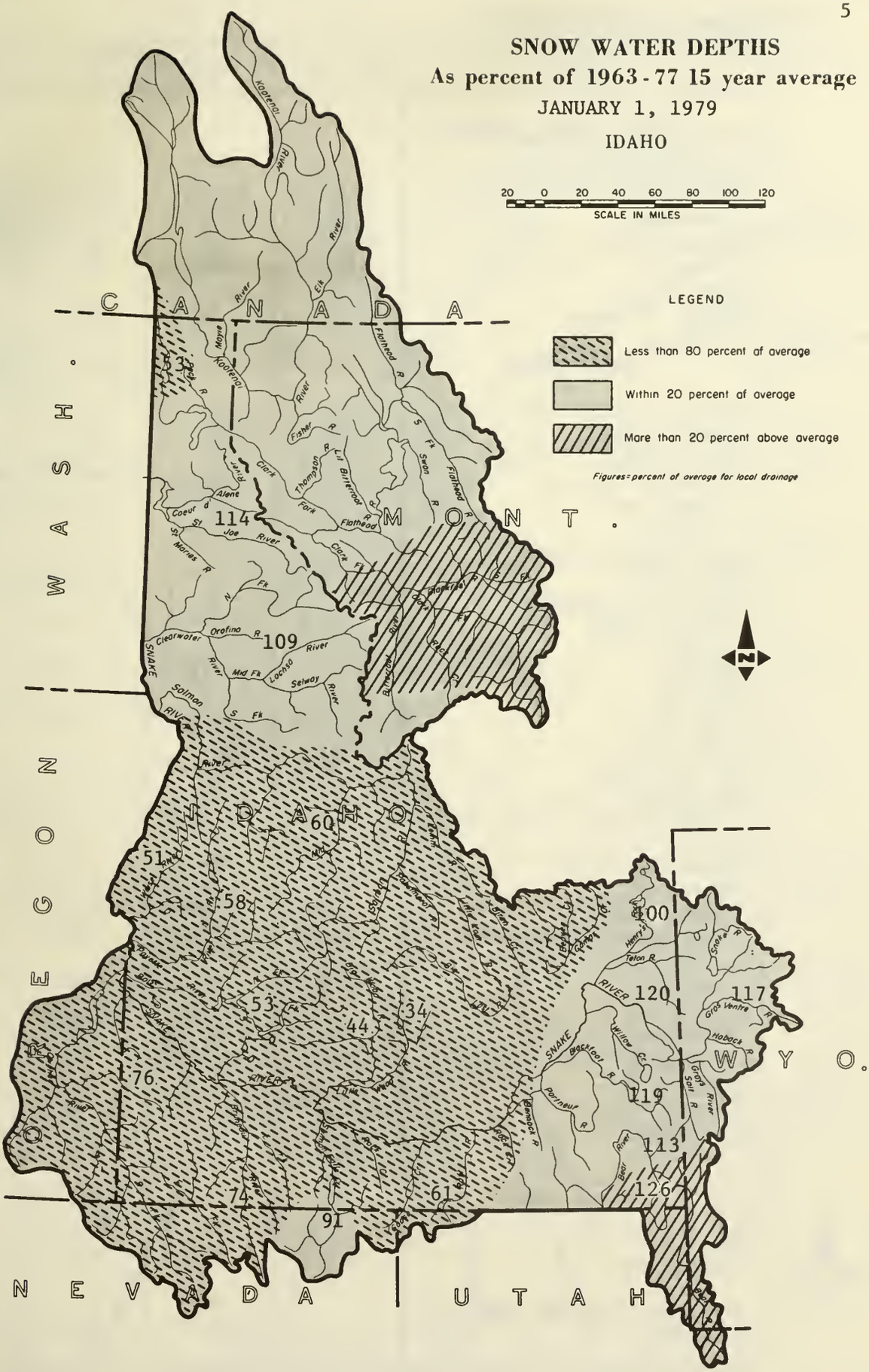
USDA-SCS-PORTLAND, OR. 1978 M7-L-22023Q

SNOW WATER DEPTHS

As percent of 1963-77 15 year average

JANUARY 1, 1979

IDAHO



RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2478.0	1974.0	2766.0*
Flathead	1791.0	1151.0	1205.0	1423.0*
Pend Oreille	1155.1	158.5	553.4	730.8
Noxon	334.6	282.2	316.5	325.5*
Spokane				
Coeur d'Alene	225.1	46.8	182.0	143.3
SNAKE BASIN				
Snake				
Jackson Lake	847.0	566.8	284.2	599.7
Palisades	1200.0	1132.7	209.6	1098.8
American Falls	1700.0	1120.6	695.3	1019.3
Island Park	127.0	110.9	71.2	92.4
Brownlee	980.2	700.5	821.6	1254.5
Goose-Trapper Creeks				
Oakley	74.4	29.8	27.3	23.5
Salmon Falls Creek				
Salmon Falls	182.6	28.9	30.1	39.2
Big Lost				
Mackay	44.2	33.7	20.2	26.7
Big Wood				
Magic	191.5	110.0	13.9	98.4
Little Wood				
Little Wood	30.0	17.0	6.5	14.0
Fish Creek				
Carey Valley	14.4	4.7	1.0	--
Boise				
Anderson Ranch	423.2	345.3	72.5	342.1
Arrowrock	286.6	178.8	150.6	216.8
Lucky Peak	278.2	68.9	23.3	81.9
Lake Lowell (Deer Flat)	169.0	127.9	36.5	124.1
Owyhee				
Owyhee	715.0	451.8	221.8	812.3
Payette				
Cascade	653.2	415.8	248.9	429.0
Deadwood	161.9	75.4	43.5	74.3
Weiser				
Mann Creek	11.1	3.1	1.7	--
Clearwater				
Dworshak	2016.0	771.0	1271.7	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	978.9	764.0	971.8

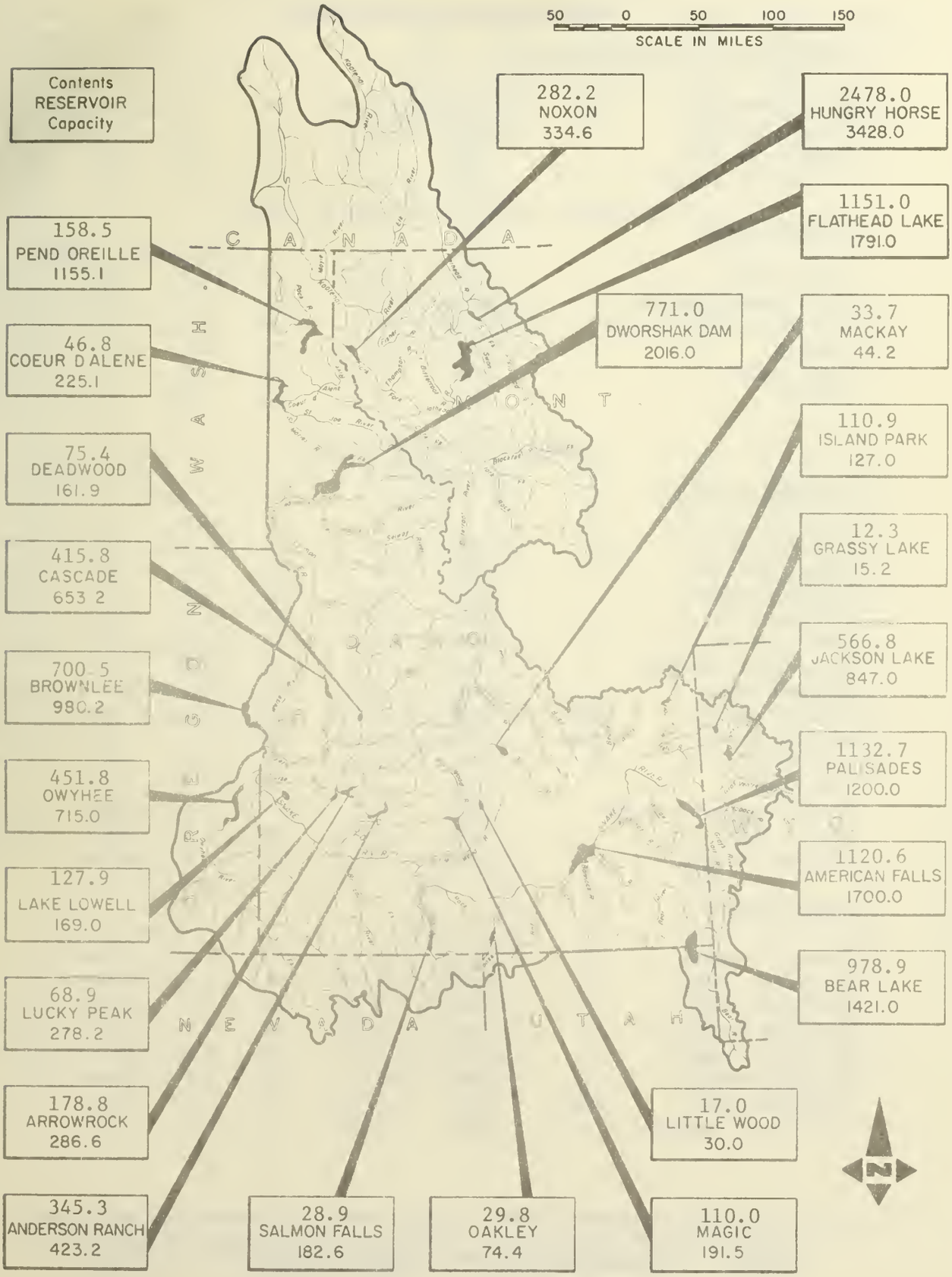
*1958-1972 average year period.

USDA-SCS-PORTLAND, OR. 1978 M7-L-22023R

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

JANUARY 1, 1979



SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average [6]
UPPER COLUMBIA RIVER BASIN						
PEND OREILLE - PRIEST RIVER						
Benton Meadow	2370	12/29	14	1.7	5.4	2.9
Benton Spring	4900	12/29	22	3.1	12.1	8.3
Schweitzer Bowl	4500	1/2	25	6.8	18.7	13.0
Schweitzer Ridge	6200	1/2	39	11.9	26.2	20.3
SPOKANE RIVER						
Above Burke	4100	12/29	43	11.0	10.5	9.3*
#Forty-nine Meadows	4840	1/3	46	10.0	----	----
Fourth of July Summit	3200	1/2	26	6.2	2.9	3.3*
Lookout	5120	12/31	41	11.2	22.0	13.7
#Lost Lake	6080	1/3	63	17.3	----	----
Sherwin	3200	1/2	32	8.0	5.8	5.5*
LOWER SNAKE RIVER BASIN						
CLEARWATER RIVER						
Breezy Saddle	5000	1/3	45	10.1	----	----
Cayuse Airstrip	3500	1/3	34	6.8	4.9	5.1*
Crater Meadows	6100	1/3	62	15.3	21.7	18.3*
Crooked Fork	3600	12/27	29	6.9	8.4	----
Fish Lake Airstrip	5650	1/5	66	16.1	20.6	16.1*
Forty-nine Meadows	4840	1/3	46	10.0	----	----
Hemlock Butte	5500	1/5	62	15.2	21.9	20.8*
#Hoodoo Basin Mont.	6000	12/28	74	20.2	----	----
#Hoodoo Creek Mont.	5900	12/28	69	17.9	----	----
Lolo Pass	5240	12/27	59	14.8	19.8	11.5*
Lost Lake	6080	1/3	63	17.3	----	----
Pierce Ranger Station	3170				6.4	4.2
Savage Pass	6170	12/27	49	12.4	18.2	10.2*
Shanghai Summit	4600	1/5	47	11.1	12.0	9.9*
SALMON RIVER						
#Banner Summit	7000	12/27	27	7.2	----	----
Big Creek Summit	6600	12/26	35	9.6	22.4	14.7
#Boulder Creek	5500	12/28	28	5.2	11.8	10.2
Brundage Mountain	7560	12/29	43	12.0	26.5	18.9*
#Deadwood Summit	6750	12/27	36	9.8	27.1	22.7*
#Galena Summit	8780	12/27	24	5.8	13.9	10.4
#Gibbons Pass Mont.	7100	12/28	37	8.9	17.0	----
Mill Creek Summit	8800	12/28	24	5.5	12.9	13.3*

(b) 1963-77, 15 year period. #Not located directly on this drainage. *Estimated 1963-77, 15 year average.

USDA SCS PORTLAND OREGON 1974 M7-0-22023P

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches): Last Year	PAST RECORD: Water Content (inches): Average b/
Moose Creek	6200	1/2	29	6.6	14.8	6.9*
Morgan Creek	7580	12/28	23	4.7	9.3	2.6*
#Rock Flat Summit	5340	12/29	24	5.8	8.7	7.1
#Secesh Summit	6520	12/27	34	8.7	20.7	14.1
#Squaw Meadow	5900	12/27	34	8.7	20.9	16.8
Vienna Mine	8950	1/2	36	9.0	23.4	----
MIDDLE SNAKE RIVER BASIN - NORTHSIDE						
LITTLE LOST RIVER						
Hilts Creek	8000	12/29	17	3.0	----	----
Wet Creek Summit	7760	12/29	17	3.1	----	4.4
BIG LOST RIVER						
Bear Canyon	7920	1/2	18	3.1	7.8	----
Copper Basin	7650	1/2	7	1.2	3.2	----
Fishpole Lake	9350	1/2	19	4.2	10.2	----
Lost Wood Divide	7900	1/2	20	4.3	12.2	----
Stickney Mill	7450	1/2	13	2.0	3.8	----
White Knob	7700	12/28	8	1.4	2.2	3.6*
LITTLE WOOD RIVER						
#Bear Canyon	7920	1/2	18	3.1	7.8	----
Garfield Ranger Station	6560	1/2	10	1.5	5.7	4.1*
Muldoon	6300	1/2	9	1.2	4.4	3.2*
Swede Peak	7640	1/2	17	2.7	7.6	8.4
BIG WOOD RIVER						
#Couch Summit	6850	12/29	16	2.8	8.1	7.2*
Dollarhide Summit	8400	1/2	23	5.0	----	----
Galena	7300	12/27	21	3.4	11.0	7.8
Galena Summit	8780	12/27	24	5.8	13.9	10.4
Graham Ranch	6280	12/27	16	2.7	5.3	5.6
#Lost-Wood Divide	7900	1/2	20	4.3	12.2	----
Mascot Mine	7760	1/2	15	2.7	6.9	----
Mount Baldy	9000	12/31	18	3.0	10.4	8.7*
Soldier Ranger station	6100	12/29	10	1.9	5.5	4.9*
#Vienna Mine	8950	1/2	36	9.0	23.4	----

(b) 1963-77, 15 year period. #Not located directly on this drainage. *Estimated 1963-77, 15 year average.

USDA SCS PORTLAND OREGON 1978

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
BOISE RIVER						
Atlanta Summit	7500	12/28	30	6.9	19.3	15.2*
Bad Bear	5500	12/27	20	4.4	7.7	5.2*
#Bogus Basin	6340	12/28	20	5.2	7.5	9.6
Bogus Basin Road	5520	12/28	12	2.8	2.2	2.9*
Couch Summit	6850	12/29	16	2.8	8.1	7.2*
#Dollarhide Summit	8400	1/2	24	5.0	----	----
Graham Guard Station	5690	12/28	19	4.0	12.1	----
Jackson Peak	7070	12/27	28	7.5	18.8	15.1*
Moores Creek Summit	6100	12/27	28	7.0	19.5	13.0
#Soldier Ranger Station	6100	12/29	10	1.9	5.5	4.9*
Trinity Mountain	7780	12/28	32	8.4	26.1	15.6*
#Vienna Mine	8950	1/2	36	9.0	23.4	----
PAYETTE RIVER						
Banner Summit	7000	12/27	27	7.2	----	----
#Big Creek Summit	6600	12/26	35	9.6	22.4	14.7
Bogus Basin	6340	12/28	20	5.2	7.5	9.6
#Brundage Mountain	7560	12/29	43	12.0	26.5	18.9*
Cozy Cove	5400	12/27	20	4.8	8.4	7.0
Crawford Ranger Station	4800	12/26	10	2.0	3.0	3.0*
Deadwood Airstrip	5440	12/27	19	4.8	7.4	6.3*
Deadwood Summit	7000	12/27	36	9.8	27.1	22.7*
#Jackson Peak	7070	12/27	28	7.5	18.8	15.1*
Lake Fork	6000	12/27	26	6.1	9.8	----
Rock Flat Summit	5340	12/29	24	5.8	8.7	7.1
Secesh Summit	6520	12/27	34	8.7	20.7	14.1
Squaw Meadow	5900	12/27	34	8.7	20.9	16.8*
WEISER RIVER						
Boulder Creek	5500	12/28	28	5.2	11.8	10.2

USDA SCS PORTLAND OREGON 1974 M7-0-22023P

(b) 1963-77, 15 year period. #Not located directly on this drainage. *Estimated 1963-77, 15 year average.

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average [b]
MIDDLE SNAKE RIVER BASIN - SOUTHSIDE						
RAFT RIVER						
Howell Canyon	7980	1/2	24	6.4	14.2	10.5
GOOSE CREEK						
Bostetter Ran. Sta.	7500	1/3	27	6.8	----	----
SALMON FALLS CREEK						
Deadline	6900	12/29	33	9.6	9.6	8.7*
Goat Creek Nev.	8800	12/28	22	5.6	6.7	7.8*
Magic Mountain	6700	12/29	26	6.9	7.8	7.5*
#Pole Creek R.S. Nev.	8330	12/28	30	8.1	6.4	9.1*
BRUNEAU RIVER						
Pole Creek R.S. Nev.	8330	12/28	30	8.1	6.4	9.1*
#Seventy-six Creek Nev.	7100	1/3	12	2.6	6.7	5.3
OWYHEE RIVER						
#Bear Creek Nev.	7800				10.2	7.8*
#Seventy-six Creek Nev.	7100	1/3	12	2.6	6.7	5.3
Silver City	6400	12/31	20	5.2	5.3	5.8
South Mountain	6340	12/31	18	4.6	5.6	5.2

(b) 1963-77, 15 year period. #Not located directly on this drainage. *Estimated 1963-77, 15 year average.

USDA-SCS PORTLAND OREGON 1978 M7-0-22023P

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches): Last Year	PAST RECORD: Water Content (inches): Average [6]
UPPER SNAKE RIVER BASIN						
CAMAS-BEAVER CREEKS						
Camp Creek	6800	12/29	18	3.2	2.0	4.8
Kilgore	6200	12/28	20	3.0	----	4.5
HENRYS FORK RIVER						
Big Springs	6400	12/28	34	7.6	11.0	7.8
Grassy Lake Wyo.	7230	12/27	64	15.8	19.4	14.4
Island Park	6290	12/28	31	6.5	7.9	6.2
Sawtell Mountain	8720	12/29	38	8.5	15.0	----
Targhee Pass	7000	12/29	24	4.3	6.3	----
Valley View	6740	12/29	25	5.0	6.2	6.4
White Elephant	7700	12/29	32	6.6	12.6	----
TETON RIVER						
Darby Canyon Wyo.	8250	1/2	39	10.0	11.1	----
Freds Mountain Wyo.	8150	1/2	41	9.2	14.6	----
Garns Mountain	8300	1/2	61	18.1	23.0	----
Indian Meadows Wyo.	8240	1/2	53	14.1	20.6	----
Jackpine Creek Wyo.	7350	1/2	38	8.8	11.2	----
McRenolds Reservoir	6800	1/2	38	9.0	8.7	----
Miles Creek Wyo.	7300	1/2	26	4.6	7.8	----
Pine Creek Pass	6750	1/2	34	7.0	9.4	6.9
State Line	6650	1/2	33	8.6	6.0	5.9
WILLOW CREEK						
Aspen Grove	6500	1/6	28	4.0	4.2	----
Birch Creek	6800	1/6	24	4.0	3.6	----
Blue Ridge	6800	1/6	26	5.7	6.4	----
Bone	6200	1/6	17	2.6	2.1	----
Brockman Station	6430	1/6	26	4.2	3.8	----
Hell Creek	7100	1/6	30	6.0	7.3	----
Mud Creek	7150	1/6	19	3.0	----	----
Sheep Mountain	6570	1/6	28	5.5	6.4	----
Tex Creek	6650	1/6	23	3.8	3.0	----
BLACKFOOT RIVER						
Slug Creek Divide	7230	12/26	31	6.9	10.4	7.5*
Somsen Ranch	7000	12/26	33	7.9	7.8	4.9*
SAND CREEK						
Henry Creek	5650	1/6	14	2.0	----	----

(b) 1963-77, 15 year period. #Not located directly on this drainage. *Estimated 1963-77, 15 year average.

USDA-SCS PORTLAND OREGON 1974 M7-0-22023P

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average (b)
GREAT BASIN						
BEAR RIVER						
Emigrant Summit	7380	1/2	41	10.8	17.1	9.4*
MONTPELIER CREEK						
Giveout	6840	12/27	25	5.7	7.8	4.8
Little Beaver	6970	12/27	28	7.5	9.8	5.7
Montpelier Creek	6570	12/27	18	2.5	5.2	3.4
Whiskey Flat	6960	12/26	16	4.1	6.2	3.6
MINK CREEK						
#Emigrant Summit	7380	1/2	41	10.8	17.1	9.4*
CUB RIVER						
Cub River R. S.	5400	12/26	19	3.6	6.0	3.4*
#Franklin Basin Utah	8000	12/26	35	9.7	----	----
Willow Flat	6100	12/26	31	8.1	10.6	5.9

(b) 1963-77, 15 year period. #Not located directly on this drainage. *Estimated 1963-77, 15 year average.

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U.S. Army Engineers

U.S. Department of Agriculture
Forest Service
Agricultural Research Service
Statistical Reporting Service

U.S. Department of Commerce
NOAA, National Weather Service

U.S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
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Water Supply Outlook For Idaho

SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
FEB. 1, 1979

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: VIEW OF A SNOTEL DATA SITE IN THE SNOWY RANGE IN WYOMING. TALL CYLINDRICAL DEVICE IS A PRECIPITATION GAGE. SNOW PILLOWS ON THE GROUND NOT VISIBLE DUE TO SNOW COVER. SHELTER HOUSE, ANTENNA TOWER, ANTENNA, AND TEMPERATURE UNIT ARE VISIBLE BEHIND THE PRECIPITATION GAGE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R.M. DAVIS

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

C. STEPHEN ALLRED

DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

JACK A. WILSON, Snow Survey Supervisor
GERALD A. BEARD, Asst. Snow Survey Supervisor
KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL STATEMENT FOR FEBRUARY 1979

Water supplies for the 1979 irrigation season should be adequate for water users on streams with storage facilities, however severe shortages may be experienced on small streams with no reservoirs.

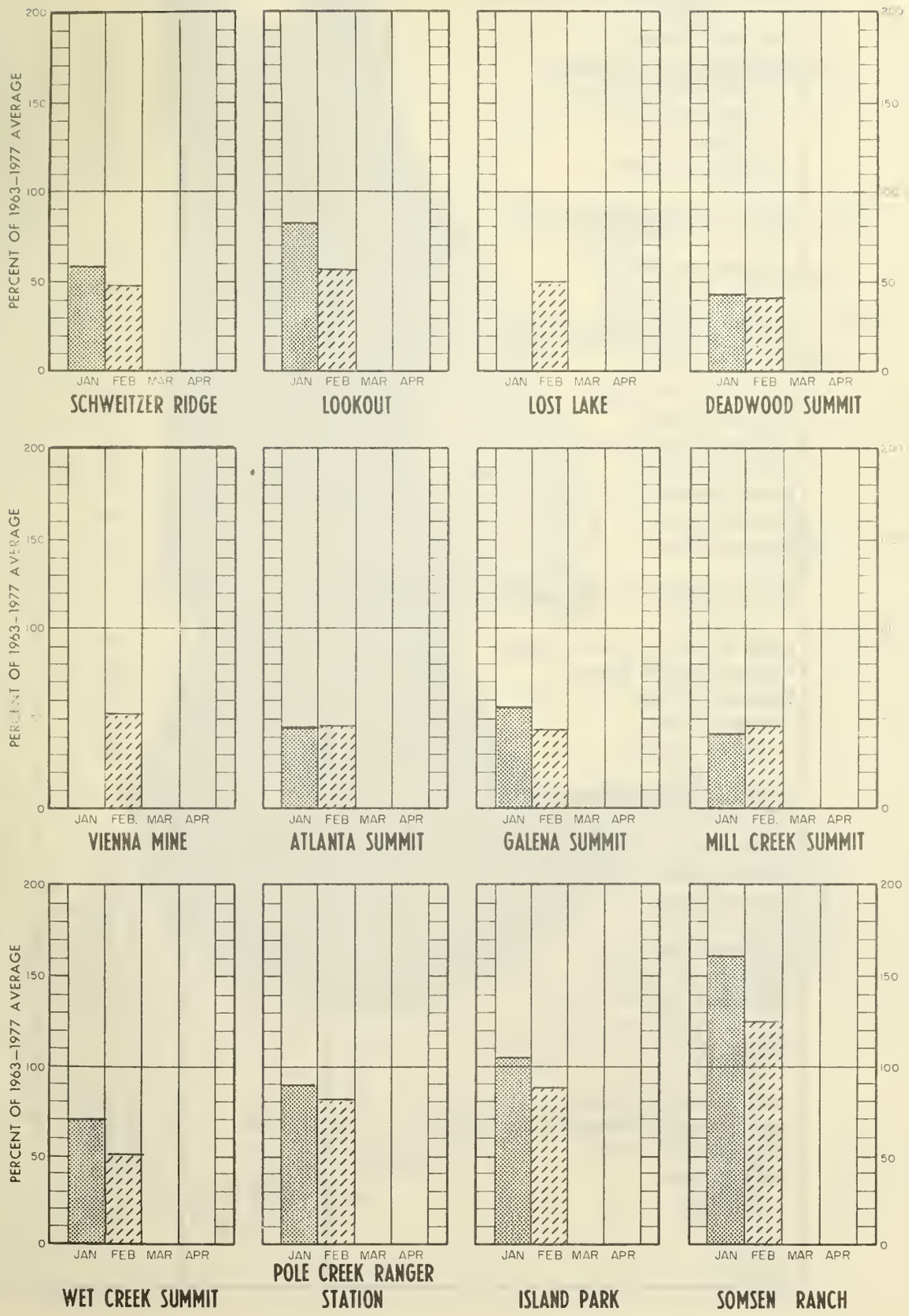
Snowpack accumulation has been extremely variable throughout Idaho during the winter of 1979. In general snow water equivalent varies from a low of 39 percent of average on the Little Wood River drainage to highs of 114 percent on the Blackfoot River and 118 percent on the Cub River watersheds. Except for the Teton River at 111 percent, the mountain snowpack on all drainages in the state north of the Snake River is below to well below average while the watersheds on the south are average to above normal. Temperature inversions and storm patterns have resulted in an above normal snowpack at lower elevations and below average at middle and high elevations.

Reservoir storage is good to excellent with a combination of 17 irrigation reservoirs across southern Idaho showing 107 percent of normal contents.

Precipitation during January was variable and generally below normal varying from 20 percent at Porthill to 235 percent at Twin Falls. Temperatures were well below normal throughout the state, with the northern portion registering 15° below average and southern Idaho reporting 12° below normal.

SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1963 – 1977 15 Year Average

FEBRUARY 1, 1979



COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Kootenai River	27	52	55
Pend Oreille River	59	72	85
Clark Fork River	40	78	95
Flathead River	19	63	71
Priest River	4	40	47
Spokane River	5-6	73	70
LOWER SNAKE RIVER BASIN			
Clearwater River	10-12	74	74
Salmon River	13	45	52
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River	1	76	50
Big Lost River	7-8	43	43
Little Wood River	4	36	39
Big Wood River	9-10	40	45
Boise River	12	47	53
Payette River	12	46	52
Weiser River	1	48	52
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River - Goose Creek	1-2	70	84
Salmon Falls Creek	9	101	102
Bruneau River	4	85	81
Owyhee River	6	121	120
Jordan Creek	2	100	102
UPPER SNAKE RIVER BASIN			
Snake Basin - Above Palisades Res.	25	73	105
Camas-Beaver Creeks	2	74	66
Henrys Fork River	7	63	80
Teton River	10-11	84	111
Willow Creek	6-10	78	101
Blackfoot River	3	76	114
Portneuf River	4	78	98
GREAT BASIN			
Bear River - Upper	7	68	105
Bear River - Lower	8	83	117
Montpelier Creek	6	68	98
Mink Creek	1	75	105
Cub River	3	87	118

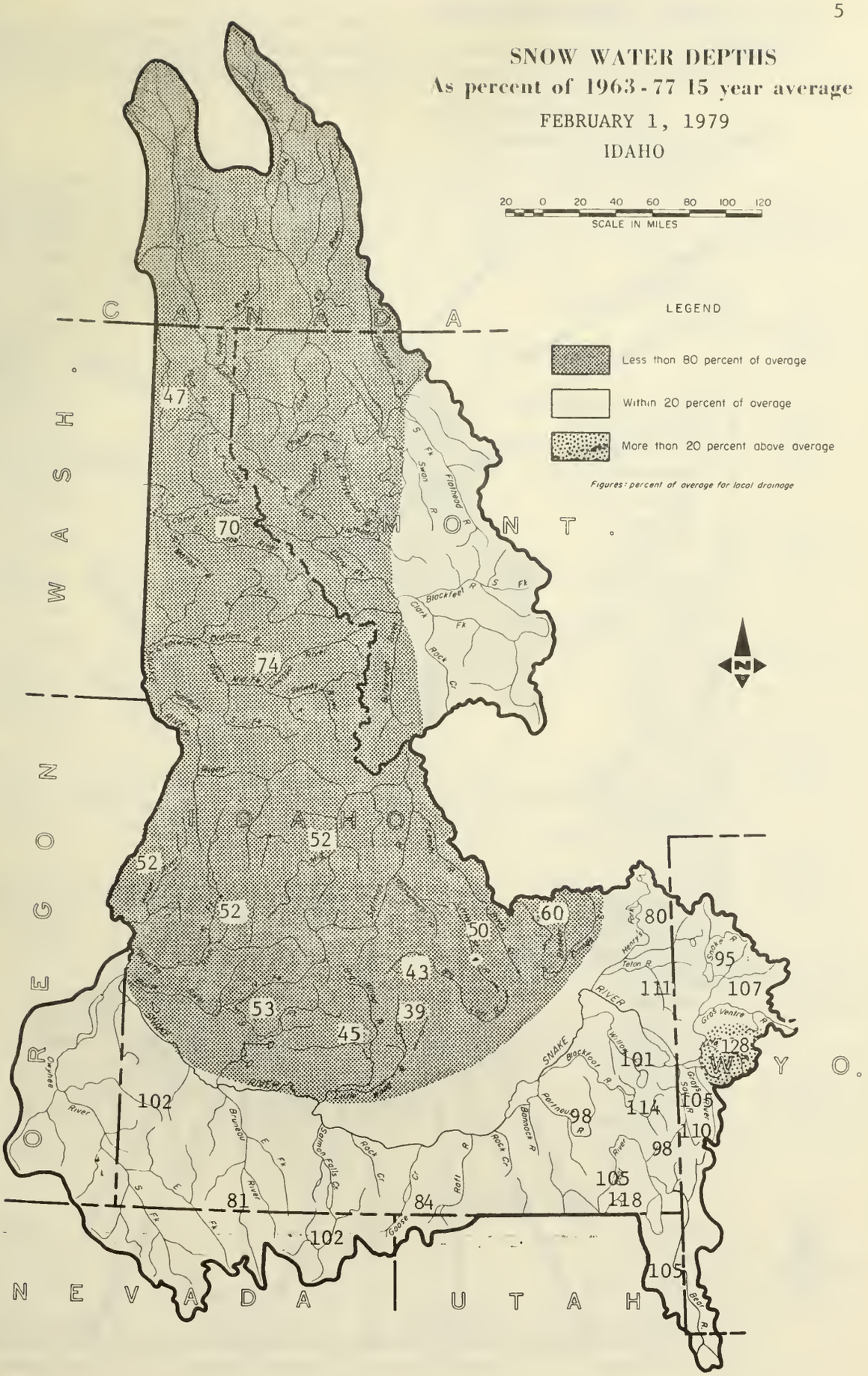
USDA-SCS-PORTLAND,OR.1978 M7-L-22023Q

SNOW WATER DEPTHS

As percent of 1963-77 15 year average

FEBRUARY 1, 1979

IDAHO



RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2215.0	1791.0	2484.0*
Flathead	1791.0	852.2	1920.0	1246.0*
Pend Oreille	1155.1	158.5	138.5	320.9
Noxon	334.6	286.6	320.2	320.8*
Spokane				
Coeur d'Alene	225.1	13.7	134.7	145.3
SNAKE BASIN				
Snake				
Jackson Lake	847.0	570.9	307.4	612.5
Palisades	1200.0	1130.0	263.2	907.8
American Falls	1700.0	1233.7	975.2	1151.2
Island Park	127.0	102.4	87.1	105.0
Grassy Lake	15.2	12.5	8.5	10.4
Brownlee	980.2	550.4	565.2	674.4
Goose-Trapper Creeks				
Oakley	74.4	31.3	29.5	26.4
Salmon Falls Creek				
Salmon Falls	182.6	31.4	32.9	51.6
Big Lost				
Mackay	44.2	38.0	24.7	30.3
Big Wood				
Magic	191.5	111.0	17.0	103.6
Little Wood				
Little Wood	30.0	19.7	5.5	16.1
Fish Creek				
Carey Valley	14.4	5.3	2.0	--
Boise				
Anderson Ranch	423.2	336.6	75.7	279.0
Arrowrock	286.6	227.3	156.5	254.3
Lucky Peak	278.2	66.3	58.5	85.9
Lake Lowell (Deer Flat)	169.0	129.1	63.9	122.1
Owyhee				
Owyhee	715.0	510.5	259.1	462.5
Payette				
Cascade	653.2	383.5	273.9	370.8
Deadwood	161.9	79.5	47.9	80.6
Weiser				
Mann Creek	11.1	3.4	3.4	--
Clearwater				
Dworshak	2016.0	307.5	867.0	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1300.7	774.8	1026.4

*1958-72 years of average.

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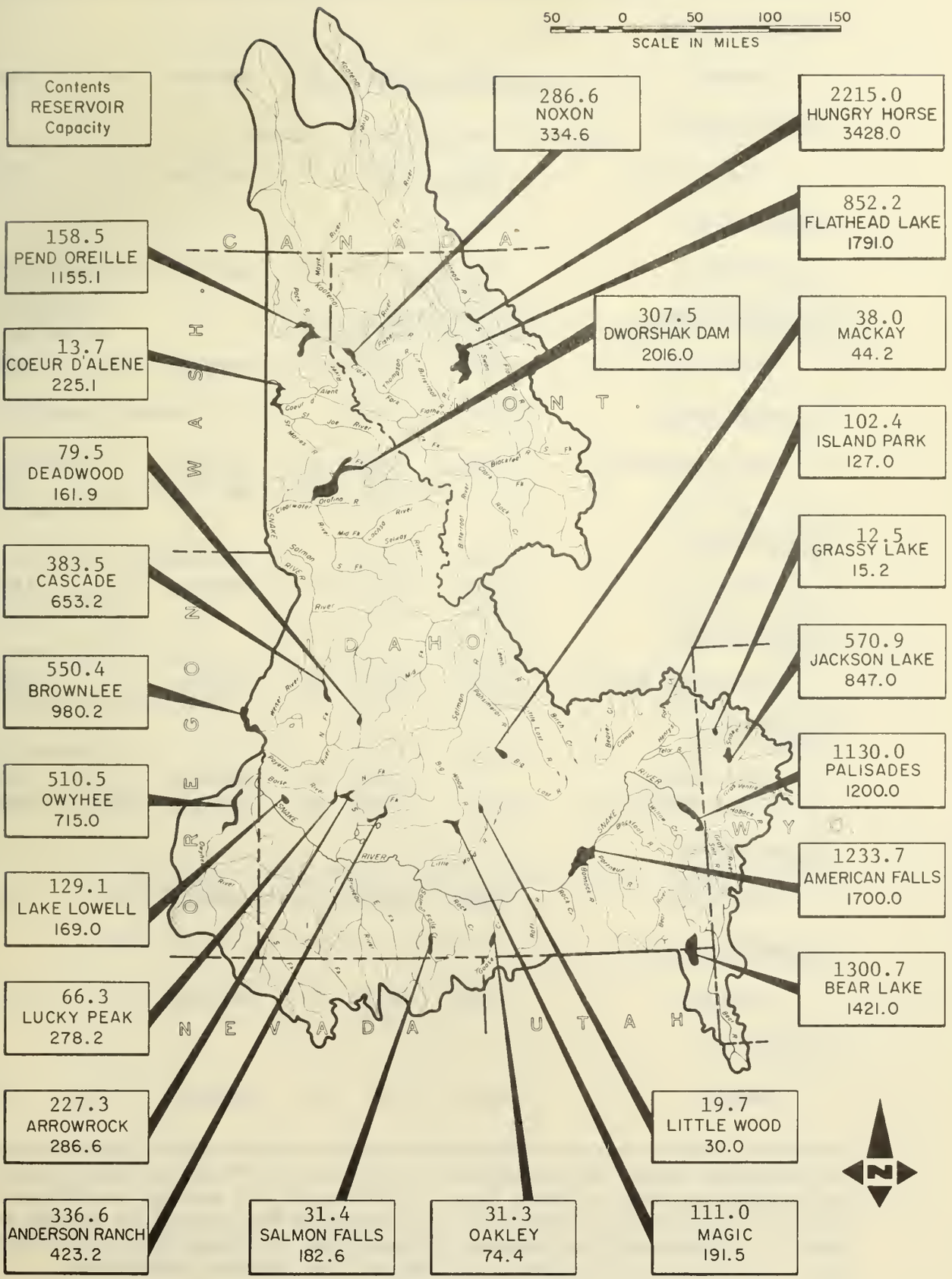
RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

FEBRUARY 1, 1979



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST[c] Thousand Acre Feet	THIS YEAR FORECAST[c] Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average †
KOOTENAI RIVER						
Leonia	(at)	6300	71	Apr-Sep	--	8883
SPOKANE RIVER						
Post Falls 1/	(at)	2100	72	Apr-Sep	--	2910
SNAKE RIVER						
Heise 2/	(nr)	3720	87	Apr-Sep	1486	4274
BIG LOST RIVER						
Mackay 3/	(nr)	120	59	Apr-Sep	--	204
BIG WOOD RIVER						
Magic Reservoir	(nr)	95	30	Apr-Sep	--	319
Inflow		100	30	Mar-July	--	332
BOISE RIVER						
Boise 4/	(nr)	1000	59	Apr-Sep	--	1695
PAYETTE RIVER						
Horseshoe Bend 5/	(nr)	1160	62	Apr-Sep	--	1860
OWYHEE RIVER						
Lake Owyhee		485	95	Feb-Jul	730	510**
net inflow 6/		310	95	Apr-Sep	457	332**
SALMON RIVER*						
Whitebird	(at)	5290	74	Apr-Sep	--	7196
CLEARWATER RIVER*						
Spalding	(at)	6620	76	Apr-Sep	--	8672
BEAR RIVER						
Harer	(at)	288	87	Apr-Sep	278	332

(c) Assuming normal meteorological conditions. 1/Observed flow corrected for storage in Coeur d'Alene Lake. 2/Corrected for storage in Jackson Lake and Palisades. 3/Observed flow corrected for storage in Mackay Reservoir. 4/Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 5/Corrected for storage in Cascade and Deadwood Reservoirs. 6/U.S.B.R. records of inflow. *NWS forecast. +1963-1977 average. **1958-72 average.

USDA SCS PORTLAND OREGON 1974 M7-0-22023N

VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

DRAINAGE DIVISIONS	Winter January 1979		Fall - Winter Oct. 78 - Jan. 79	
	Observed	Departure 2/	Observed	Departure 2/
Kootenai, Canada & U.S.	1.15	-2.33	4.63	-5.07
Flathead	1.30	-1.55	4.86	-2.60
Clark Fork	1.12	-1.07	3.91	-1.60
Pend Oreille-Spokane	1.65	-2.77	6.87	-5.31
Upper Snake	2.13	-0.50	6.28	-0.46
Snake River Plain	1.55	+0.32	2.76	-0.76
Salmon-Payette-Boise	1.97	-1.33	4.49	-3.82
Clearwater	2.07	-2.67	8.42	-3.63
Owyhee-Malheur	1.70	+0.22	3.38	-0.59

1/ Preliminary analysis and data by the National Weather Service and Meterological Service of Canada.

2/ Departure from 15-year (1958-1972) drainage division average.

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average [b]
UPPER COLUMBIA RIVER BASIN						
PEND OREILLE - PRIEST RIVER						
Benton Meadow	2370	1/29	22	3.2	6.3	5.5
Benton Spring	4900	1/29	30	6.2	15.8	13.9
Schweitzer Bowl	4500	1/30	33	9.5	25.5	21.8*
Schweitzer Ridge	6200	1/30	50	15.6	39.4	32.6*
SPOKANE RIVER						
Above Burke	4100	1/30	51	14.2	16.1	16.4*
#Forty-nine Meadows	4840	1/29	55	12.5	17.3	--
Fourth of July Summit	3200	1/29	39	9.6	7.1	7.2
Lookout	5120	1/30	51	14.4	27.4	25.4
#Lost Lake	6080	1/29	77	19.4	36.3	39.4*
Sherwin	3200	1/30	42	11.7	7.6	10.7
LOWER SNAKE RIVER BASIN						
CLEARWATER RIVER						
Breezy Saddle	5000	1/29	56	13.0	19.6	--
Cayuse Airstrip	3500	1/29	45	9.6	7.2	9.7*
Crater Meadows	6100	1/29	80	20.7	28.7	31.0*
Crooked Fork	3600	1/29	41	10.1	12.4	10.4*
Fish Lake Airstrip	5650	1/29	81	20.5	22.7	28.8*
Forty-nine Meadows	4840	1/29	55	12.5	17.3	--
Hemlock Butte	5500	1/29	82	20.6	32.7	35.1*
#Hoodoo Basin Mont.	6000	2/1	73	25.4	--	36.3*
#Hoodoo Creek Mont.	5900	2/1	67	22.5	--	32.5*
Lolo Pass	5240	1/29	65	20.2	26.8	21.8*
Lost Lake	6080	1/29	77	19.4	36.3	39.4*
Pierce Ranger Sta.	3170	1/31	42	9.6	9.4	8.6
Savage Pass	6170	1/30	56	17.3	23.4	19.1*
Shanghai Summit	4600	1/29	62	14.8	19.2	17.4*
WEBB CREEK						
Kruse Meadows	4800	1/30	38	9.1	--	--
Soldier Meadow	4640	1/30	38	9.2	--	--
Webb Creek	4720	1/30	38	9.1	--	--
SALMON RIVER						
#Banner Summit	7040	1/31	40	10.7	--	--
Big Creek Summit	6600	1/27	50	13.8	31.6	26.3
#Boulder Creek	5500	1/29	38	9.4	19.6	18.0

*(b)1963-77, 15 year period. #Not located directly on this drainage. * Estimated 1963-77 15 year average. (A) Aerial observation Water content estimated (SP) Pressure Pillow snow-water equivalent (R) Radioactive Gage snow-water equivalent*

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SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average 1/
Brundage Mountain	7560	1/29	50	14.8	35.5	32.2*
#Deadwood Summit	6750	1/31	49	14.4	38.4	34.8*
#Galena Summit	8780	1/26	33	7.5	19.6	17.5
#Gibbons Pass Mont.	7100	1/29	46	12.0	22.1	16.7
Mill Creek Summit	8800	1/31	32	8.1	17.3	17.1
Moose Creek	6200	1/31	37	9.7	19.2	12.6
Morgan Creek	7580	1/30	30	6.7	12.6	10.3
#Rock Flat Summit	5340	1/29	34	8.0	15.0	13.3
#Secesh Summit	6520	1/28	43	12.3	27.8	25.0*
#Squaw Meadow	5900	1/28	42	12.2	29.1	25.8*
Vienna Mine	8950	1/30	50	13.8	30.1	26.1*
MIDDLE SNAKE RIVER BASIN - NORTHSIDE						
LITTLE LOST RIVER						
Hilts Creek	8000	1/30	23	4.2	--	--
Wet Creek Summit	7760	1/30	23	4.4	5.8	8.7*
BIG LOST RIVER						
Bear Canyon	7920	1/30	26	4.9	12.4	13.0*
Copper Basin	7650	1/30	11	2.5	7.6	6.8*
Fishpole Lake	9350	1/30	29	7.1	18.0	--
Iron Bog	7650	1/28	24	4.7	11.0	11.1*
Leadbelt	6800	1/28	17	3.3	7.8	7.2*
Lost-Wood Divide	7900	1/30	29	7.0	16.8	17.0*
Stickney Mill	7450	1/30	20	3.8	6.2	6.0*
White Knob	7700	1/31	15	3.2	5.9	6.8
LITTLE WOOD RIVER						
#Bear Canyon	7920	1/30	26	4.9	12.4	13.0*
Garfield Ranger Sta.	6560	1/29	18	3.1	10.3	8.0*
Muldoon	6300	1/29	16	2.8	7.6	6.2*
Swede Peak	7640	1/29	26	4.8	13.6	12.6*
BIG WOOD RIVER						
#Couch Summit	6850	1/29	27	5.4	14.9	13.7*
Dollarhide Summit	8400	1/30	34	8.8	--	18.3*
Galena	7300	1/26	30	6.4	17.1	14.8
Galena Summit	8780	1/26	33	7.5	19.6	17.5
Graham Ranch	6280	1/26	25	4.4	11.7	10.5
#Lost-Wood Divide	7900	1/30	29	7.0	16.8	17.0*
Mascot Mine	7760	1/30	25	5.1	12.7	9.8*
Mount Baldy	9000	2/2	29	6.1	16.0	15.2*
Soldier Ranger Station	6100	1/29	20	3.8	11.0	9.8
#Vienna Mine	8950	1/30	50	13.8	30.1	26.1*

*(b)1963-77, 15 year period. #Not located directly on this drainage. * Estimated 1963-77 15 year average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

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SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches): Last Year	PAST RECORD: Water Content (inches): Average 1/
BOISE RIVER						
Atlanta Summit	7500	1/29	44	11.8	28.8	25.2
Bad Bear	5500	1/30	33	8.3	12.7	11.0
#Bogus Basin	6340	1/29	40	10.0	16.3	17.6
Bogus Basin Road	5520	1/29	29	7.6	7.0	6.0
Couch Summit	6850	1/29	27	5.4	14.9	13.7*
#Dollarhide Summit	8400	1/30	34	8.8	--	18.3*
Graham Guard Station	5690	1/29	29	6.3	16.9	--
Jackson Peak	7070	1/31	42	11.5	30.1	24.1*
Moores Creek Summit	6100	1/30	48	13.0	26.7	23.7
Prairie	4800	1/28	21	4.6	4.4	5.5
#Soldier Ranger Sta.	6100	1/29	20	3.8	11.0	9.8
Trinity Mountain	7780	1/29	49	13.8	36.1	31.1
#Vienna Mine	8950	1/30	50	13.8	30.1	26.1*
PAYETTE RIVER						
Banner Summit	7040	1/31	40	10.7	--	--
#Big Creek Summit	6600	1/27	50	13.8	31.6	26.3
Bogus Basin	6340	1/29	40	10.0	16.3	17.6
#Brundage Mountain	7560	1/29	50	14.8	35.5	32.2*
Cozy Cove	5400	1/31	31	7.7	14.6	13.2*
Crawford Ranger Sta.	4800	1/27	20	4.0	7.6	6.7
Deadwood Airstrip	5440	1/31	30	7.4	13.4	11.7
Deadwood Summit	7000	1/31	49	14.4	38.4	34.8*
#Jackson Peak	7070	1/31	42	11.5	30.1	24.1*
Lake Fork	6000	1/28	36	8.9	15.1	11.2*
Rock Flat Summit	5340	1/29	34	8.0	15.0	13.3
Secesh Summit	6520	1/28	43	12.3	27.8	25.0*
Squaw Meadow	5900	1/28	42	12.2	29.1	25.8*
WEISER RIVER						
Boulder Creek	5500	1/29	38	9.4	19.6	18.0

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SNOW

DRAINAGE BASIN and or SNOW COURSE NAME		Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average 4/
MIDDLE SNAKE RIVER BASIN - SOUTHSIDE							
RAFT RIVER							
Howell Canyon		7980	1/31	49	13.5	19.2	18.6
GOOSE CREEK							
Bostetter Ranger Sta.		7500	1/30	48	13.5	--	13.7*
SALMON FALLS CREEK							
#Bear Creek (A)	Nev.	7800	1/30	36	9.9	14.8	13.6
Cedar Creek (A)		7000	1/30	35	8.9	8.2	6.4
Deadline		6900	1/28	59	16.6	16.0	15.7
Goat Creek	Nev.	8800	1/27	36	9.7	11.8	11.8
#Hummingbird Springs	(A) Nev.	8940	1/30	52	14.0	13.9	15.5
Magic Mountain		6700	1/28	54	15.1	14.2	12.8
#Pole Creek R. S.	Nev.	8330	1/27	43	11.3	11.6	14.4
Shoshone Basin		5740	1/28	40	9.0	4.4	4.4*
Wilson Creek (A)		7500	1/30	42	9.3	8.2	7.7
BRUNEAU RIVER							
Bear Creek (A)	Nev.	7800	1/30	36	9.9	14.8	13.6*
Hummingbird Springs	(A) Nev.	8940	1/30	52	14.0	13.9	15.5
Pole Creek R. S.	Nev.	8330	1/29	43	11.7	11.6	14.4
#Seventy-six Creek	(A) Nev.	7100	1/30	25	6.2	8.8	7.8
OWYHEE RIVER							
#Bear Creek (A)	Nev.	7800	1/30	36	9.9	14.8	13.6
#Seventy-six Creek	(A) Nev.	7100	1/30	25	6.2	8.8	7.8
Silver City		6400	1/27	40	11.0	11.4	11.1*
South Mountain		6340	1/27	40	10.4	10.1	9.9
UPPER SNAKE RIVER BASIN							
CAMAS-BEAVER CREEKS							
Camp Creek		6800	1/31	24	4.4	5.4	8.3
Kilgore		6200	1/28	28	6.8	9.7	8.6
HENRYS FORK RIVER							
Big Springs		6400	1/30	44	12.0	19.4	14.7
Grassy Lake	Wyo.	7230	1/29	82	24.9	30.8	24.8
Island Park		6290	1/30	42	10.6	14.8	12.0

*(b)1963-77, 15 year period. #Not located directly on this drainage. 4/ Estimated 1963-77 15 year Average. (A) Aerial observation. *Water content estimated. (SP) Pressure Pillow snow-water equivalent (R) Radioactive Gage snow-water equivalent*

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SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME		Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average [4]
Sawtell Mountain		8720	1/30	53	14.7	27.0	22.8*
Targhee Pass		7000	1/31	31	7.2	11.6	10.5*
Valley View		6740	1/31	34	8.2	12.2	12.5
White Elephant		7700	1/30	41	10.3	23.2	13.2*
TETON RIVER							
Darby Canyon	Wyo.	8250	1/29	52	14.2	17.6	15.4*
Freds Mountain	Wyo.	8150	1/29	53	13.6	21.6	13.9*
Garns Mountain		8300	1/29	97	32.5	28.4	27.4*
Indian Meadows	Wyo.	8240	1/29	76	21.6	32.6	--
Jackpine Creek	Wyo.	7350	1/29	52	14.2	19.2	14.9*
McRenolds Reservoir		6800	1/29	49	12.8	16.0	13.0*
Miles Creek	Wyo.	7300	1/29	36	8.9	10.8	8.7*
Phillips Bench	Wyo.	8200	1/29	72	23.4	28.5	17.8*
Pine Creek Pass		6750	1/29	47	12.3	14.8	12.0
State Line		6650	1/29	46	12.4	10.8	10.0
Teton Pass W.S.	Wyo.	8400	1/29	67	21.8	23.7	16.8*
WILLOW CREEK							
Aspen Grove		6500	1/30	36	8.2	8.5	8.4*
Birch Creek		6800	1/30	33	7.5	9.0	7.4*
Blue Ridge		6800	1/30	42	10.4	15.0	--
Bone		6200	1/30	28	5.7	6.8	6.0*
Brockman Station		6430	1/30	33	8.2	9.4	--
Hell Creek		7100	1/30	44	10.6	13.8	--
Henry Creek		5650	1/30	24	5.0	7.0	3.0*
Mud Creek		7150	1/30	38	9.3	14.6	--
Sheep Mountain		6570	1/30	38	8.3	11.8	9.8*
Tex Creek		6650	1/30	32	6.8	6.9	6.5*
BLACKFOOT RIVER							
Austin Brothers Ranch		6400	1/31	36	8.3	9.1	6.4
Slug Creek Divide		7230	1/30	41	11.0	17.0	11.5
Somsen Ranch		7000	1/31	46	12.5	15.7	10.1
PORTNEUF RIVER							
Dempsey Creek		6100	1/28	37	8.8	11.7	8.3
Lower Pebble		5800	1/28	41	10.2	13.2	9.2*
Mink Creek		6300	1/27	47	10.2	11.3	12.4*
Pebble Creek		6550	1/28	42	11.2	15.4	11.2

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SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average /
GREAT BASIN						
MONTPELIER CREEK						
Giveout	6840	1/29	37	9.0	12.9	8.5
Little Beaver	6970	1/29	43	11.2	15.2	10.6
Lower Home Canyon	7640	1/29	38	9.8	14.0	10.1
Montpelier Creek	6570	1/29	29	5.8	9.3	5.8
Upper Home Canyon	8560	1/29	50	14.2	22.8	16.3*
Whiskey Flat	6960	1/29	28	6.6	9.6	6.5
MINK CREEK						
#Emigrant Summit	7380	1/31	59	17.8	23.8	17.0
CUB RIVER						
Cub River Ranger Sta.	5400	1/29	34	8.6	9.4	6.4
#Franklin Basin	8000	1/29	55	18.1	23.4	17.8
Willow Flat	6100	1/29	52	14.8	14.8	10.9

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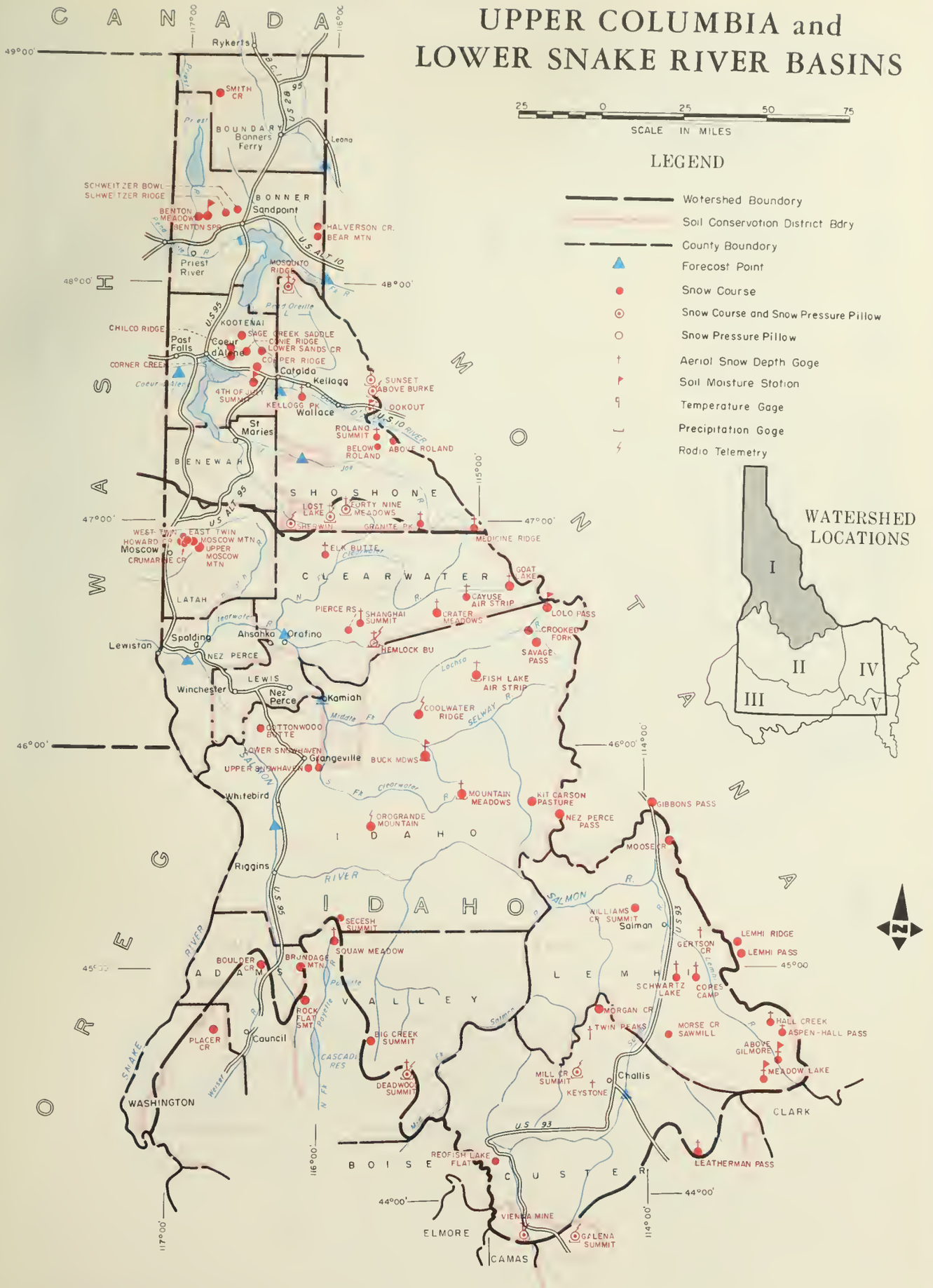
UPPER COLUMBIA and LOWER SNAKE RIVER BASINS



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.
UPPER COLUMBIA BASIN						
		KOOTENAI RIVER				
16A7	I	Halverson Creek	3	57N	3E	4850
16A1	I	Smith Creek	29	64N	3W	4800
		PEND OREILLE - PRIEST RIVER				
16A8	I	Bear Mountain	9	57N	3E	5400
16A2	I	Benton Meadow	27	58N	4W	2370
16A3	I	Benton Spring	30	58N	3W	4900
16A6	I	Schweitzer Bowl	20	58N	2W	4500
16A5	I	Schweitzer Ridge	19	58N	2W	6200
		HAYDEN CREEK				
16B8	I	Chilco Ridge	15	52N	2W	3650
16B7	I	Conie Ridge	22	52N	2W	3900
16B9	I	Corner Creek	22	52N	2W	3150
16B6	I	Sage Creek Saddle	10	52N	2W	4100
		SPOKANE RIVER				
15B8SP	I	Above Burke	11	48N	5E	4100
15B7	I	Above Roland	35	47N	6E	4350
15B6	I	Below Roland	3	46N	6E	3840
16B2	I	Copper Ridge	6	50N	1W	4800
16B3M	I	Fourth of July Summit	6	49N	1W	3200
15B13A	I	Granite Peak	3	42N	8E	6000
16B5A	I	Kellogg Peak	19	48N	3E	5560
15B2MSP	I	Lookout	4	47N	6E	5120
16B1	I	Lower Sands Creek	32	51N	1W	3400
15B4ASP	I	Medicine Ridge	24	43N	10E	6160
16A4ASP	I	Mosquito Ridge	5	54N	2E	5110
15B5A	I	Roland Summit	26	47N	6E	5200
16C1SP	I	Sherwin	28	42N	1E	3200
15B9ASP	I	Sunset	33	49N	5E	5600
LOWER SNAKE BASIN						
		PALOUSE RIVER				
16C6	I	Crumarine Creek	24	40N	5W	3340
16C3	I	East Twin	13	40N	5W	4050
16C5	I	Howard Creek	14	40N	5W	3500
16C2	I	Moscow Mountain	18	40N	4W	4400
16C4P	I	West Twin	14	40N	5W	4250

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.
		CLEARWATER RIVER				
15D5MAP	I	Buck Meadows	26	31N	8E	5650
15C3A	I	Cayuse Airstrip	4	38N	11E	3700
15C7S	I	Coolwater Mountain	32	33N	8E	6200
16C16	I	Cottonwood Butte	33	32N	1W	5140
15C9A	I	Crater Meadows	2	37N	9E	6100
14C10	I	Crooked Fork	27	37N	14E	3800
16C15A	I	Elk Butte	6	40N	3E	5550
15C2AP	I	Fish Lake Airstrip	35	35N	11E	5000
15B3ASP	I	Forty-nine Meadows	6	43N	5E	4880
14C9A	I	Goat Lake	4	38N	13E	6600
16C6AP	I	Hemlock Butte	7	36N	7E	5500
15C8S	M	Hoodoo Basin	17	14N	27W	6000
15C1	M	Hoodoo Creek	16	14N	27W	5900
14D3	I	Kit Carson Pasture	4	27N	16E	5020
14C5M	I	Lolo Pass	16	38N	15E	5240
15B14AS	I	Lost Lake	16	43N	4E	6000
16D7	I	Lower Snowhaven	9	29N	3E	5300
15D6AP	I	Mountain Meadows	9	27N	10E	6300
14D1	M	Nez Perce Pass	25	1S	24W	6575
15D4S	I	Orogrande Mountain	24	27N	6E	7800
15C5	I	Pierce Ranger Station	2	36N	5E	3170
14C6	I	Powell Ranger Station	33	37N	14E	4230
14C4	I	Savage Pass	18	36N	15E	6170
15C4A	I	Shanghai Summit	7	37N	6E	4600
16D4	I	Upper Snowhaven	8 &9	29N	3E	5600
		SALMON RIVER				
13E19MA	I	Above Gilmore	13	13N	26E	8250
13E21A	I	Aspen-Hall Pass	6	16N	28E	8110
15E2	I	Big Creek Summit	24	15N	5E	6600
13E8A	I	Borah	21	10N	23E	8250
16D6	I	Brundage Mountain	6	19N	3E	7560
13E17A	I	Copes Camp	36	18N	22E	7500
13E25A	I	Double Springs Pass	3	10N	22E	8400
13D2	M	Gibbons Pass	4	2S	19W	7100
13E20A	I	Hall Creek	1	16N	27E	7560
13E24A	I	Leatherman Pass	20	9N	23E	9800
13E1	M	Lemhi Pass	9	10S	15W	7480
13E23	M	Lemhi Ridge	4	10S	15W	8100
13E18MA	I	Meadow Lake	25	13N	26E	9200
14E1MAP	I	Mill Creek Summit	8	13N	17E	8800
13D16	I	Moose Creek	14	27N	21E	6200
14E4	I	Morgan Creek	32	18N	19E	7580
13E26	I	Morse Creek Sawmill	8	15N	23E	7120
14E7	I	Redfish Lake Flat	35	10N	13E	6550
13E16A	I	Schwartz Lake	34	18N	22E	8500
14E3A	I	Twin Peaks	28	15N	17E	9170
14F4AP	I	Vienna Mine	1	5N	13E	8950
14D4	I	Williams Creek Summit	34	21N	20E	7800

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY
10J7p	STORAGE PRECIPITATION GAGE ONLY
10J7R	RADIOACTIVE GAGE

MIDDLE SNAKE RIVER BASIN
NORTHSIDE

LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and Snow Pressure Pillow
- Snow Pressure Pillow
- Aerial Snow Depth Gage
- Soil Moisture Station
- Temperature Gage
- Precipitation Gage
- Radio Telemetry

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MIDDLE SNAKE RIVER BASIN NORTHSIDE

LITTLE LOST RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
13E5M	I	Fairview Guard Station	27	12N	26E	6750
13E3	I	Lost-Garfield	3	11N	26E	6600
13E6	I	Moonshine	31	13N	26E	7500
13E4	I	Sawmill Canyon	17	12N	26E	6900
13E7MP	I	Wet Creek Summit	15	8N	25E	7760

BIG LOST RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
13F3	I	Bear Canyon	22	5N	21E	7920
13F2A	I	Copper Basin	25	6N	21E	7650
13F3A	I	Fishpole Lake	28	4N	22E	9350
13F11	I	Iron Bog	23	4N	22E	7650
13F12	I	Leadbelt	34	4N	23E	6800
14F3A	I	Lost Wood Divide	25	6N	18E	7900
14F2A	I	Stickney Mill	9	6N	19E	7450
13F1	I	White Knob	25	7N	23E	7700

BIG WOOD RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
15F9	I	Camas Creeks Divide	11	2S	9E	5720
14F8	I	Dollarhide Summit	9	3N	15E	8400
14F1M	I	Galena	2	6N	15E	7440
14F12MPS	I	Galena Summit	5	6N	15E	8780
14F5	I	Graham Ranch	10	5N	17E	6280
14F7	I	Mascot Mine	8	4N	20E	7760
14F9	I	Mount Baldy	26	4N	17E	9000
14F11	I	Soldier Ranger Station	19	2N	14E	6100

LITTLE WOOD RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
13F4	I	Garfield Ranger Station	11	3N	21E	6560
13F5	I	Muldoon	25	3N	21E	6300
13F9R	I	Swede Peak	4	3N	21E	7640

FISH CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
13F10	I	Iron Mine Creek	32	3N	23E	6370
13F6	I	Telfer Ranch	12	2N	22E	6000

BOISE RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
15F4APS	I	Atlanta Summit	23	5N	10E	7500
15F2	I	Bad Bear	35	7N	6E	5500
16F4	I	Bogus Basin Road	32	5N	3E	5520
14F10	I	Couch Summit	9	2N	14E	6850
16F1	I	Deadman Gulch	29	7N	4E	5600
15F14PSR	I	Graham Guard Station	9	7N	10E	5690
15E9AP	I	Jackson Peak	7	8N	9E	7070
15F1MPSR	I	Moores Creek Summit	19	7N	7E	6100
15F6P	I	Prairie	13	2N	7E	4800
15F3A	I	Road Creek	5	5N	8E	5550
15FAPSR	I	Trinity Mountain	6	3N	9E	7780

CANYON CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
15F7	I	Bennett Mountain	7	2S	9E	6650
15F12	I	Little Camas Flat	21	1S	9E	4950

PAYETTE RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
16F2PS	I	Bogus Basin	16	5N	3E	6340
15E8PSR	I	Cozy Cove	17	11N	7E	5400
15E3	I	Crawford Ranger Station	21	14N	4E	4800
15E10	I	Deadwood Airstrip	8	11N	7E	5440
15E4AS	I	Deadwood Summit	23	14N	7E	6800
16E4	I	High Valley Summit	9	10N	2E	5170
15E1	I	Lake Fork	3	18N	4E	6000
16E1	I	Rock Flat Summit	1	18N	2E	5340
15D1	I	Secesh Summit	4	21N	4E	6520
15D2	I	Squaw Meadow	17	21N	4E	5900
16E3	I	Tripod Summit	17	11N	3E	5200

WEISER RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
16D1P	I	Boulder Creek	16	20N	1W	5500
16E2	I	Placer Creek	15 & 16	17N	3W	6000

MANN CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
16E9	I	Mann Creek	20	15N	5W	6080
16E8	I	Sturgill Ridge	28	15N	5W	6680
17E1	I	Robinson Creek Ridge	2	14N	6W	6220
17E2	I	Thorson Cabin	12	14N	6W	5320

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
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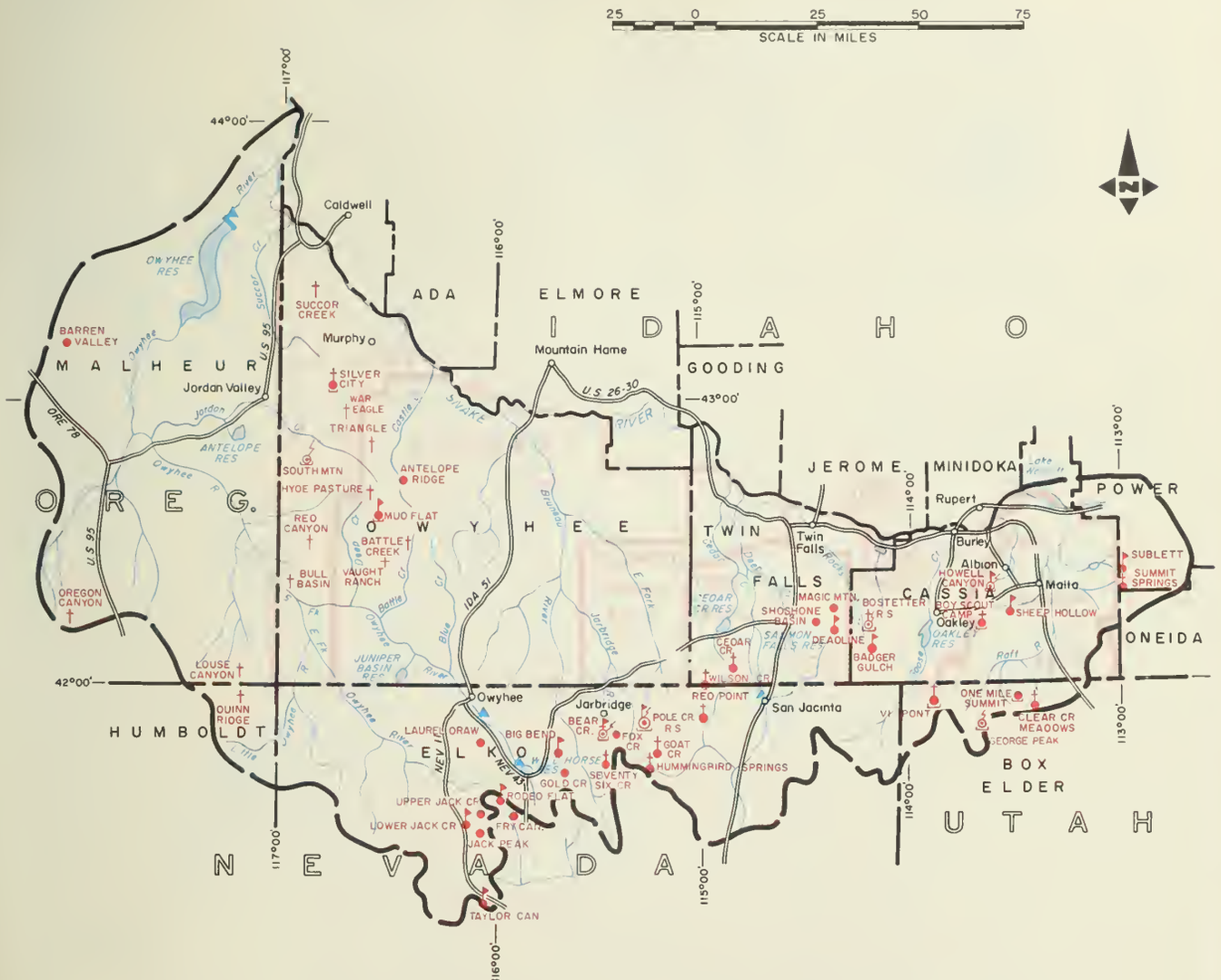
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

MIDDLE SNAKE RIVER BASIN
SOUTHSIDE



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and Snow Pressure Pillow
- Snow Pressure Pillow
- Aerial Snow Depth Gage
- Soil Moisture Station
- Temperature Gage
- Precipitation Gage
- Radio Telemetry

INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN SOUTHSIDE

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
RAFT RIVER						
13G2AP	I	Boy Scout Camp	8	14S	24E	7760
13H2A	U	Clear Creek Meadows	26	14N	14W	9050
13H4SP	U	George Peak	4	13N	14W	9000
13G1MP	I	Howell Canyon	2	13S	24E	8000
13H1P	U	One Mile Summit	19	14N	14W	7330
13G5M	I	Sheep Hollow	4	14S	24E	6200
12G8M	I	Sublett	8	12S	30E	6000
12G9A	I	Summit Springs	15	13S	30E	6400
GOOSE - TRAPPER CREEK						
14G3M	I	Badger Gulch	24	15S	19E	6660
14G1AP	I	Bostetter Ranger Station	35	14S	19E	7500
13H3AP	U	Vi Pont	17	14N	17W	7670
SALMON FALLS CREEK						
14G5A	I	Cedar Creek	25	15S	13E	7000
14G4M	I	Deadline	25	14S	18E	6900
15H13A	N	Goat Creek	31	46N	60E	8800
14G2	I	Magic Mountain	14	14S	18E	6700
15H18A	N	Red Point	15	47N	61E	7940
14G6	I	Shoshone Basin	24	14S	17E	5740
15G2A	I	Wilson Creek	24	16S	12E	7500
BRUNEAU RIVER						
15H1MAP	N	Bear Creek	31	46N	58E	7800
15H2	N	Fox Creek	33	46N	58E	6800
15H15A	N	Hummingbird Springs	6	45N	60E	8950
15H14MP	N	Pole Creek Ranger Station	13	46N	59E	8330
OWYHEE RIVER						
16G6	I	Antelope Ridge	20	8S	1E	5900
18F5	O	Barren Valley	26	17S	38E	4200
16G9a	I	Battle Creek	10	11S	1E	5700
15H4M	N	Big Bend	30	45N	56E	6700
16G10a	I	Bull Basin	19	12S	5W	5600
15H7	N	Fry Canyon	31	43N	5[illegible]E	6700
15H5	N	Gold Creek	31	45N	56E	6600
16G5a	I	Hyde Pasture	SE¼ 31	8S	2W	5800
16H4	N	Jacks Peak	28	42N	53E	8420
16H5	N	Laurel Draw	20	45N	53E	6700
17G4a	O	Louse Canyon	27	40S	44E	6440
16H1M	N	Lower Jack Creek	13	42N	53E	6800
16G7MP	I	Mud Flat	34	9S	2W	5500
17G5a	O	Oregon Canyon	9	40S	40E	6950
17H6a	N	Quinn Ridge	9	47N	41E	6300
16G11ap	I	Red Canyon	32	11S	4W	6650
15H6M	N	Rodeo Flat	36	43N	53E	6800
16F3AP	1	Silver City	6	5S	3W	6400
16G1PSR	I	South Mountain	35	7S	5W	6340
16F6a	I	Succor Creek	25	3S	5W	6100
15H9M	N	Taylor Canyon	35	39N	53E	6200
16G4a	I	Triangle	N. 35	7S	3W	5150
16H2	N	Upper Jack Creek	9	42N	53E	7250
16G12a	I	Vaught Ranch	10	11S	1W	5950
16G13a	I	War Eagle	20	5S	3W	7700

LEGEND

Numbering System (exomple)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
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10J7s	PRESSURE PILLOW ONLY.
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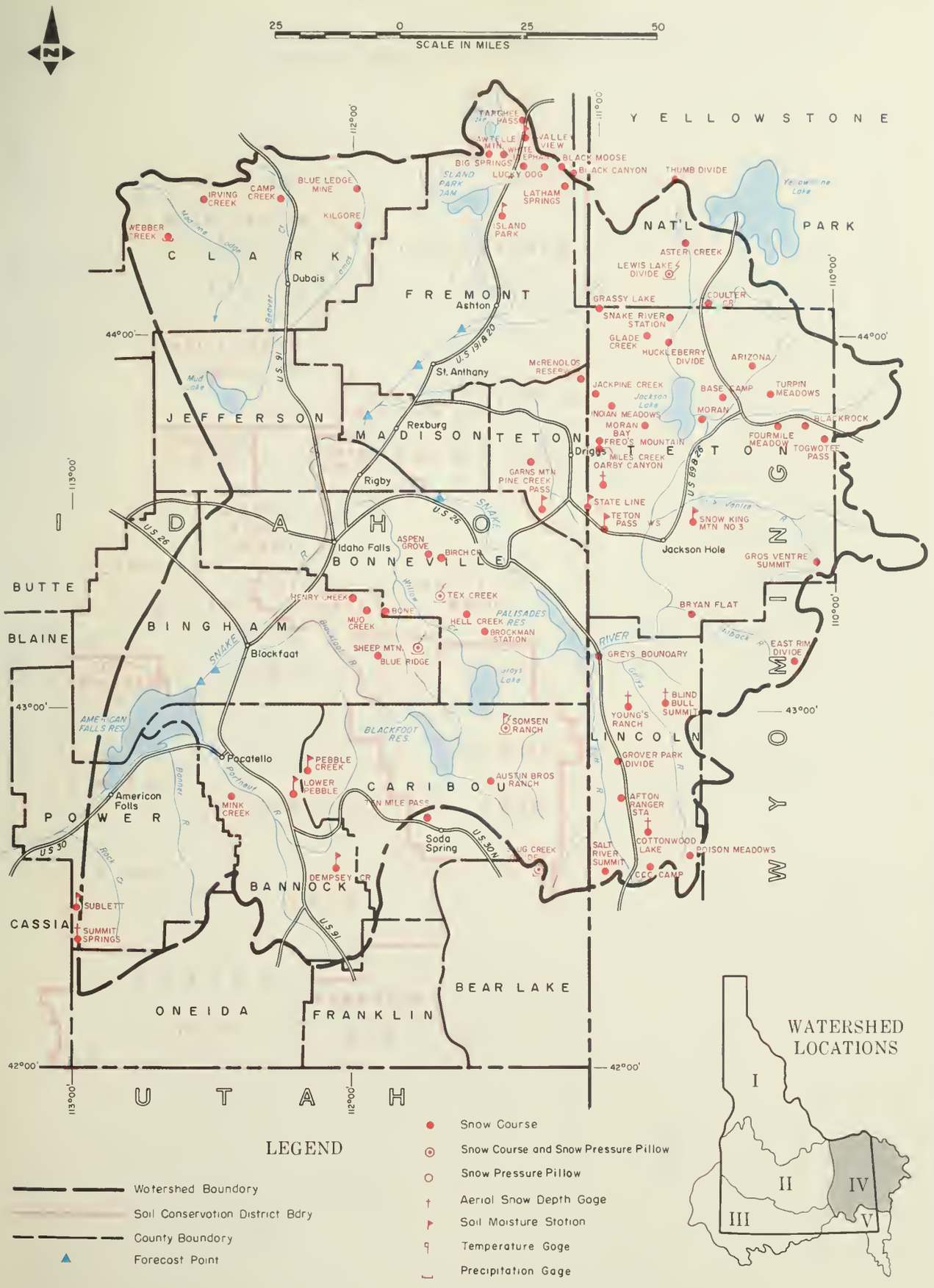
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY
10J7p	STORAGE PRECIPITATION GAGE ONLY
10J7R	RADIOACTIVE GAGE

UPPER SNAKE RIVER BASIN



INDEX to SNOW COURSES

UPPER SNAKE RIVER BASIN

SNAKE RIVER - WYOMING

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
10G4	Wy	Afton Ranger Station	30	32N	118W	6200
10F1	Wy	Arizona	3	46N	115W	6850
10E8	Wy	Aster Creek	44° 17'		110° 38'	7700
10F2	Wy	Base Camp	20	46N	113W	6900
10F7	Wy	Blackrock	4	44N	111W	8600
10G2A	Wy	Blind Bull	6	34N	115W	8750
10F14	Wy	Bryan Flat	9	38N	115W	6250
10G7	Wy	CCC Camp	9	29N	118W	7500
10G5A	Wy	Cottonwood Lake	25	31N	118W	7500
10E10	Wy	Coulter Creek	44° 09'		110° 33'	7600
10F17MP	Wy	East Rim Divide #2	32	37N	111W	7950
10F6	Wy	Four Mile Meadows	35	45N	112W	7770
10E13	Wy	Glade Creek	12	48N	116W	7200
10F18	Wy	Greys Boundary	33	37N	118W	5800
10F19	Wy	Gros Ventre Summit	36	40N	111W	8750
10G3	Wy	Grover Park Divide	27	33N	118W	7500
10E14	Wy	Huckleberry Divide	32	48N	115W	7300
10E9PS	Wy	Lewis Lake Divide	44° 13'		110° 40'	7900
10F4MP	Wy	Moran	8 & 17	45N	114W	6800
10F3	Wy	Moran Bay	14	45N	116W	6800
10G6	Wy	Poison Meadows	29	30N	116W	8500
10G8P	Wy	Salt River Summit	32	29N	118W	7900
10E12MP	Wy	Snake River Station	9	48N	115W	6780
10F20M	Wy	Snow King Mountain #3	4	40N	117W	7600
10E7	Wy	Thumb Divide	44° 22'		110° 35'	7900
10F9MP	Wy	Togwotee Pass	29	44N	110W	9600
10F5	Wy	Turpin Meadows	14	45N	112W	6930
10G1A	Wy	Young's Ranch	26	34N	116W	6530

HENRYS FORK RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
11E9	I	Big Springs	4	13N	44E	6400
11E18	I	Black Canyon	11	13N	45E	7850
11E19	I	Black Moose	33	14N	45E	8125
10E15	Wy	Grassy Lake	6	48N	117W	7230
11E10M	I	Island Park	28	13N	43E	6290
11E16	I	Latham Springs	9	13N	45E	7650
11E14	I	Lucky Dog	2	13N	45E	6900
11E32	I	Sawtell Mountain	7	14N	43E	8720
11E34	I	Targhee Pass	32	16N	44E	7000
11E8M	I	Valley View	7	15N	44E	6740
11E36	I	White Elephant	17	14N	43E	7700

TETON RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
10F21	Wy	Darby Canyon	28	43N	118W	8250
10F22	Wy	Freds Mountain	12	44N	118W	8150
11F13	I	Garns Mountain	20	4N	44E	8300
10F25	Wy	Indian Meadows	31	46N	117W	8240
10F26	Wy	Jackpine Creek	15	46N	118W	7350
11F12	I	McRenolds Reservoir	5	7N	46E	6800
10F27	Wy	Miles Creek	13	44N	118W	7300
11F2M	I	Pine Creek Pass	24	3N	44E	6750
11F1M	I	State Line	32	3N	46E	6650
10F13	Wy	Teton Pass W. S.	24	41N	118W	8400

CAMAS - BEAVER CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
11E11	I	Blue Ledge Mine	27	13N	38E	6700
12E3	I	Camp Creek	21	13N	36E	6800
11E12	I	Kilgore	6	12N	39E	6200

MEDICINE LODGE CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
12E4	I	Irving Creek	20	13N	33E	7035
12E5	I	Webber Creek	23	12N	32E	6700

WILLOW CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
11F10	I	Aspen Grove	36	2N	41E	6500
11F3	I	Birch Creek	36	2N	41E	6800
11F17I	I	Blue Ridge	35	2S	39E	6800
11F8	I	Bone	29	1S	40E	6250
11F16	I	Brockman Station	19	2S	43E	6430
11F15	I	Hell Creek	27	1S	42E	7100
11F14	I	Mud Creek	3	2S	39E	7150
11F11R	I	Sheep Mountain	30	2S	41E	6570
11F5R	I	Tex Creek	36	1N	42E	6650

SAND CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
11F6	I	Henry Creek	7	1S	39E	5650

BLACKFOOT RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
11G3	I	Austin Brothers Ranch	28	7S	43E	6400
11G5PS	I	Slug Creek Divide	15	10S	44E	7225
11G1MS	I	Somsen Ranch	25	5S	43E	7000
11G29	I	Ten Mile Pass	8	8S	41E	6250

PORTNEUF RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
12G5	I	Dempsey Creek	18	10S	38E	6100
12G6M	I	Lower Pebble	7	8S	38E	5800
12G1	I	Mink Creek	33	7S	34E	6300
12G2M	I	Pebble Creek	34	7S	37E	6550

LEGEND

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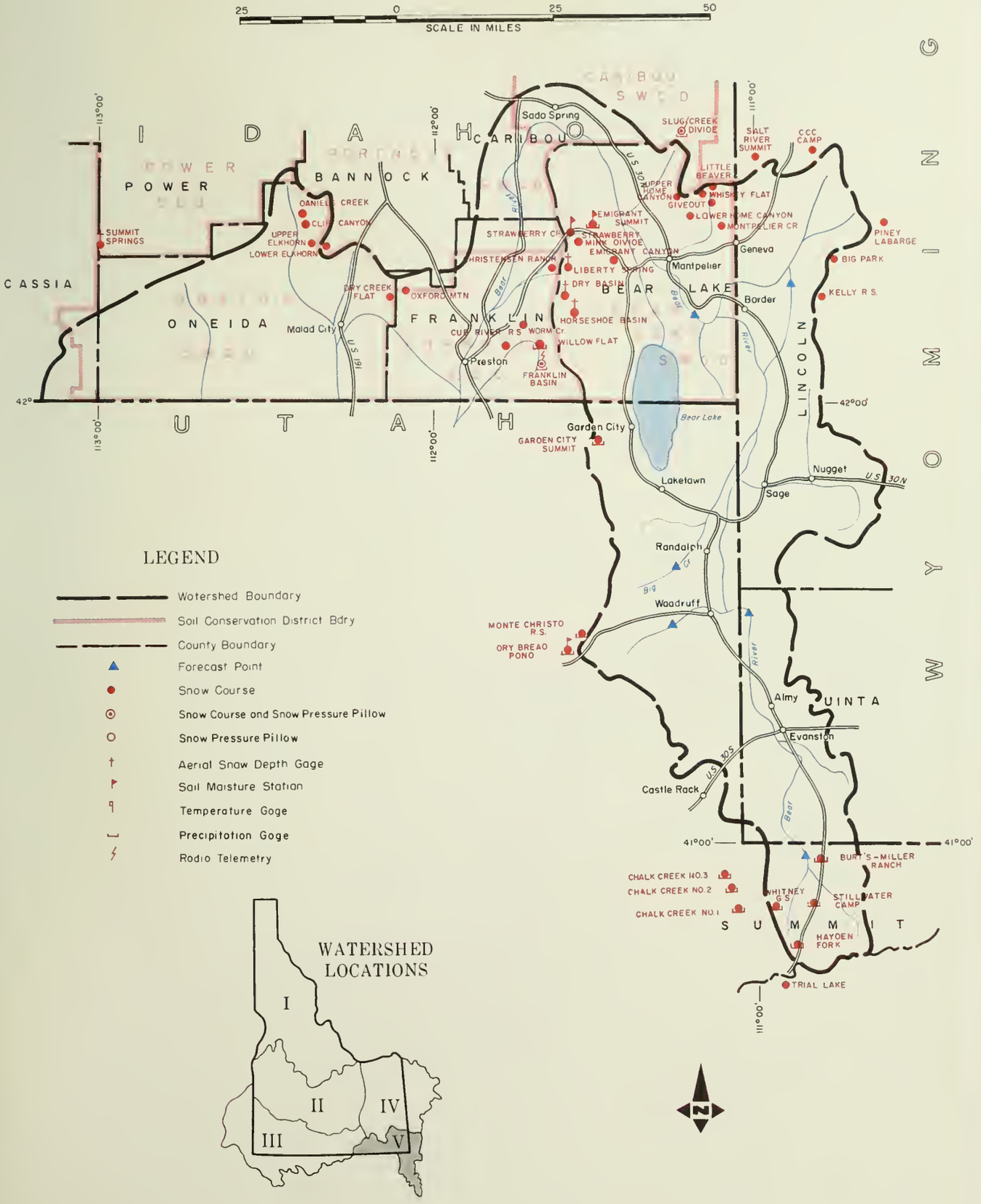
GREAT BASIN



LEGEND

- Watershed Boundary
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- Snow Pressure Pillow
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INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.

GREAT BASIN

BEAR RIVER

10G11	Wy	Big Park	7	27N	117W	8700
11H13MP	U	Dry Bread Pond	19	8N	4E	8230
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6500
11H7P	U	Garden City Summit	35	14N	4E	7600
10J6P	U	Burt's-Miller Ranch	19	3N	10E	7900
10J7P	U	Hayden Fork	1	1S	9E	9300
10G12	Wy	Kelly Ranger Station	13	26N	118W	8200
11H12P	U	Monte Cristo R. S.	3	8N	4E	8960
10G10	Wy	Piney LaBarge	19	29N	114W	8820
10J17P	U	Stillwater Camp	32	2N	10E	8550
10J28P	U	Whitney G. S.	4	1N	9E	9300

MONTPELIER CREEK

11G16	I	Giveout	2	12S	45E	6840
11G20	I	Little Beaver	26	11S	45E	6970
11G27	I	Lower Home Canyon	17	12S	45E	7500
11G18	I	Montpelier Creek	22	12S	45E	6570
11G26	I	Upper Home Canyon	31	11S	45E	8500
11G21	I	Whiskey Flat	26	11S	45E	6985

MINK CREEK

11G11	I	Christensen Ranch	27	13S	41E	5600
11G14A	I	Dry Basin	30	13S	42E	7900
11G6MP	I	Emigrant Summit	21	12S	42E	7350
11G15A	I	Horseshoe Basin	31	13S	42E	8000
11G13A	I	Liberty Spring	7	13S	42E	8600
11G9M	I	Strawberry Creek	9	13S	41E	5800
11G10	I	Strawberry Mink Divide	14	13S	41E	6800

CUB RIVER

11G12	I	Cub River Ranger Station	5	15S	41E	5400
11G8S	I	Franklin Basin	1	16S	41E	8000
11G4P	I	Willow Flat	2	15S	41E	6100
11G28	I	Worm Creek	28	14S	41E	6660

MALAD RIVER

12G13	I	Cliff Canyon	13	12S	35E	7200
12G12	I	Daniels Creek	11	12S	35E	6400
12G4	I	Dry Creek Flat	28	13S	37E	6480
12G11	I	Lower Elkhorn	30	12S	36E	7000
12G3	I	Oxford Mountain	27	13S	37E	6800
12G10	I	Upper Elkhorn	25	12S	35E	7100

LEGEND

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Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U.S. Army Engineers

U.S. Department of Agriculture
Forest Service
Agricultural Research Service
Statistical Reporting Service

U.S. Department of Commerce
NOAA, National Weather Service

U.S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

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SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

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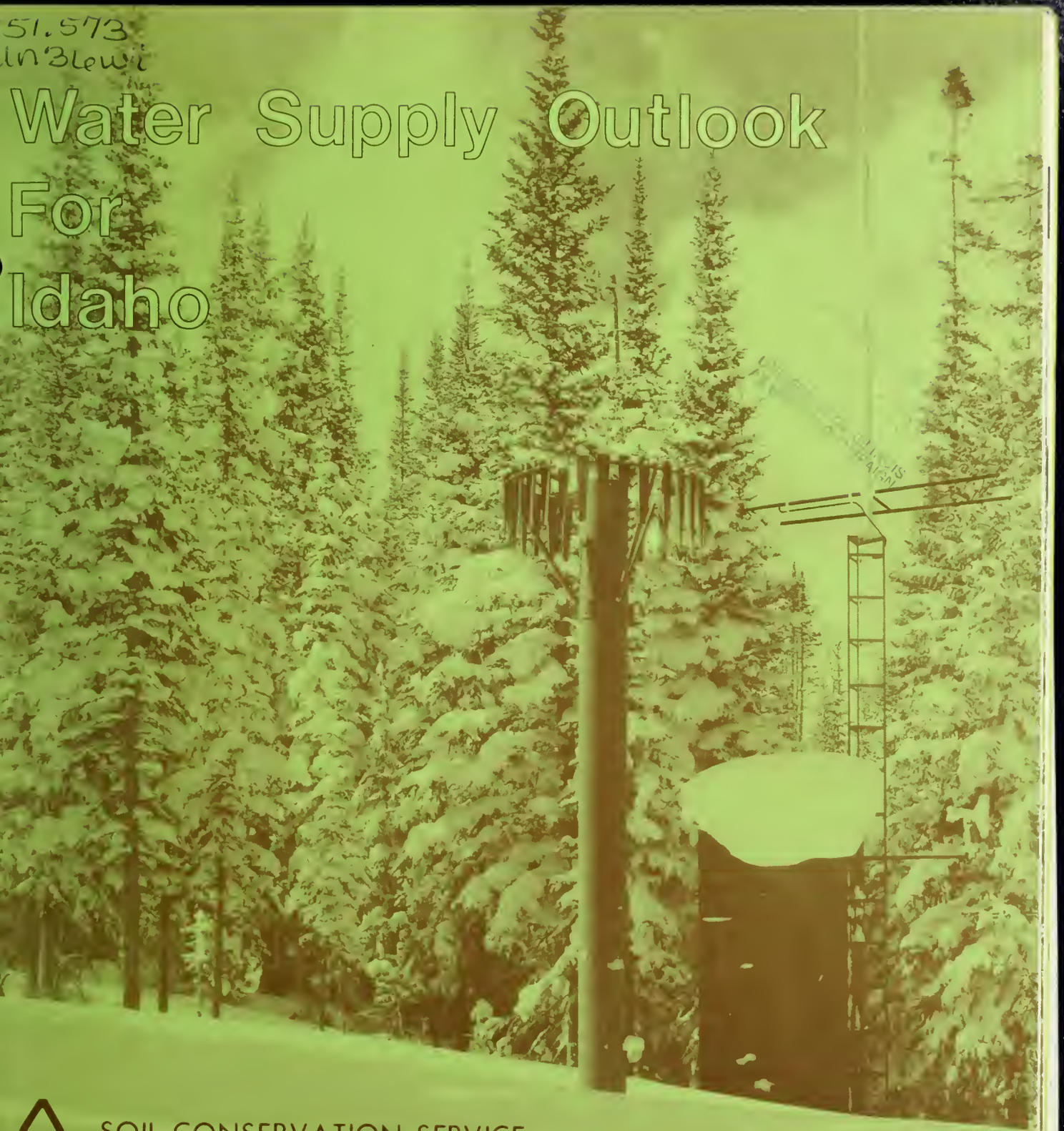
Water Supply Outlook For Idaho



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
MAR. 1, 1979

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: VIEW OF A SNOTEL DATA SITE IN THE SNOWY RANGE IN WYOMING. TALL CYLINDRICAL DEVICE IS A PRECIPITATION GAGE. SNOW PILLOWS ON THE GROUND NOT VISIBLE DUE TO SNOW COVER. SHELTER HOUSE, ANTENNA TOWER, ANTENNA, AND TEMPERATURE UNIT ARE VISIBLE BEHIND THE PRECIPITATION GAGE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
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Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
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Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

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Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R.M. DAVIS

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

C. STEPHEN ALLRED

DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

JACK A. WILSON, Snow Survey Supervisor
GERALD A. BEARD, Asst. Snow Survey Supervisor
KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL SUMMARY FOR MARCH 1, 1979

March 1 snowpack measurements indicated a marked improvement in the water supply outlook for Idaho during the summer months of 1979. Seasonal streamflow forecasts vary from 63 percent of average for the Big and Little Wood Rivers to 121 percent for the Montpelier Creek drainage in Southeastern Idaho. Runoff in most streams is expected to be from slightly below to near normal.

In general, 85 to 90 percent of the snowpack has accumulated by March 1 each year. Major storms over the entire state during the latter part of February greatly improved the snow water equivalent in the mountain snowpack.

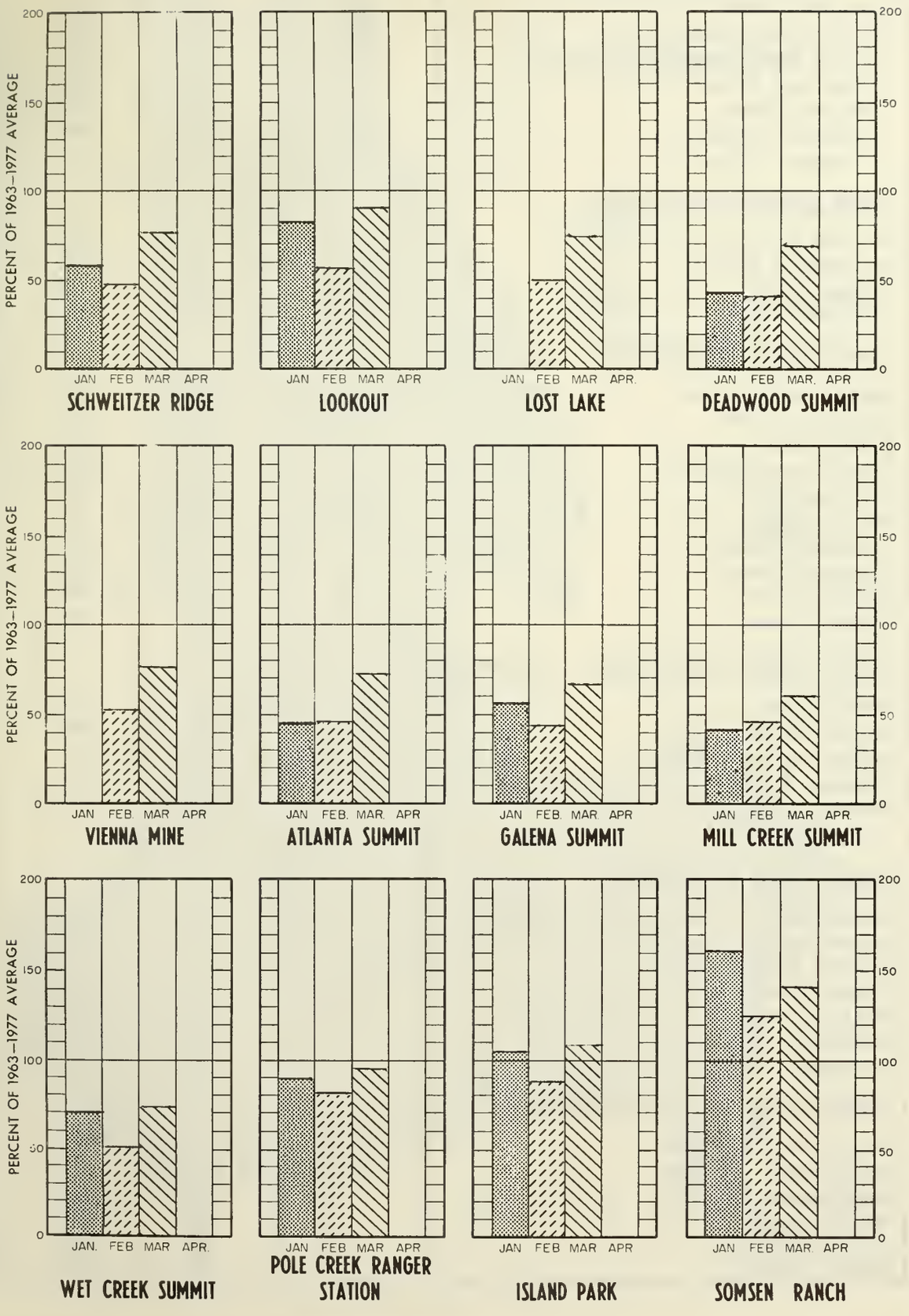
Watersheds in Northern Idaho and Western Montana from the Spokane River north increased an average of 28 percentage points to 89 percent of normal; the Clearwater and Salmon drainages improved 20 percent points to 84 percent; the central and western watersheds north of the Snake River improved 35 percent points to 78 percent of average; the Snake River and tributaries above American Falls Reservoir increased 15 percent to 108 percent of normal; and the Bear River tributaries in Southeastern Idaho improved 6 percent to 114 percent of average.

Reservoir storage is good to excellent. Seventeen irrigation reservoirs in the Snake River Basin show a combined carryover volume of 108 percent of normal. Assuming normal climatic conditions for the remainder of the season, forecasted streamflow coupled with good storage indicate an adequate water supply for the 1979 water year.

Precipitation was well above normal and temperatures were just below normal across Idaho for February. The precipitation averaged 154 percent of normal with the Twin Falls area being one of the few below normal with only 67 percent. Ketchum was at the high end with 212 percent. For the water year almost all areas are below normal with the state averaging 76 percent.

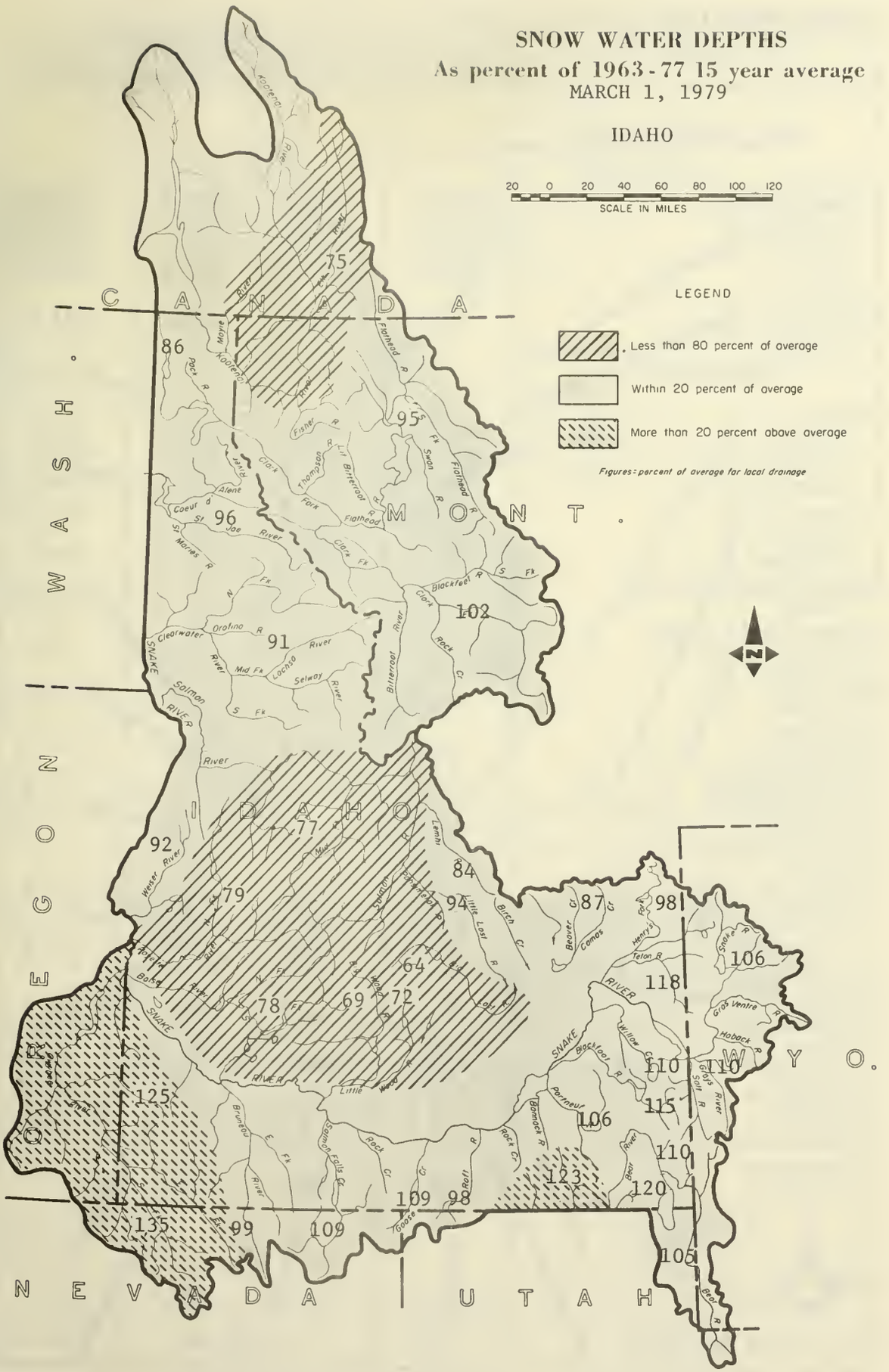
SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1963 – 1977 15 Year Average

FEBRUARY 1, 1979



COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Kootenai River	30	85	75
Pend Oreille River	107	91	99
Clark Fork River	73	92	102
Flathead River	34	89	95
Priest River	4	85	86
Spokane River	12	100	96
Hayden Creek	4	142	--
LOWER SNAKE RIVER BASIN			
Palouse River	4	252	139
Clearwater River	13	98	91
Salmon River	16	66	77
Lemhi River	6	80	84
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River	5	79	94
Big Lost River	7-8	59	64
Fish Creek	2	83	103
Little Wood River	4	61	72
Big Wood River	10-11	58	69
Boise River	16-17	64	78
Canyon Creek	3	61	86
Payette River	14	68	79
Weiser River	6	81	92
Mann Creek	4	81	96
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River	6	96	98
Goose-Trapper Creek	3	98	109
Salmon Falls Creek	10	102	109
Bruneau River	5	90	99
Owyhee River	7	104	135
Jordan Creek	2	101	125
UPPER SNAKE RIVER BASIN			
Snake Basin - Above Palisades Res.	33	77	108
Camas-Beaver Creeks	2	76	87
Henrys Fork River	7	77	98
Teton River	11	90	118
Willow Creek	5-10	92	110
Blackfoot River	3	83	115
Portneuf River	4	88	106
GREAT BASIN			
Bear River - Upper	8	74	105
Bear River - Lower	24	87	116
Montpelier Creek	6	75	110
Mink Creek	7	82	113
Cub River	3-4	93	120
Malad River	4-6	82	123


SNOW WATER DEPTHS
As percent of 1963-77 15 year average
MARCH 1, 1979
IDAHO
20 0 20 40 60 80 100 120
SCALE IN MILES
LEGEND
Less than 80 percent of average
Within 20 percent of average
More than 20 percent above average
Figures: percent of average for local drainage
CANADA
MONT.
WASH.
OREGON
NEVADA
UTAH
WYO.
75
86
95
96
102
91
92
77
79
84
94
87
98
106
118
64
78
69
72
110
110
115
106
125
123
120
109
98
135
99
109
105

RESERVOIR STORAGE (1,000 Ac. Ft.)

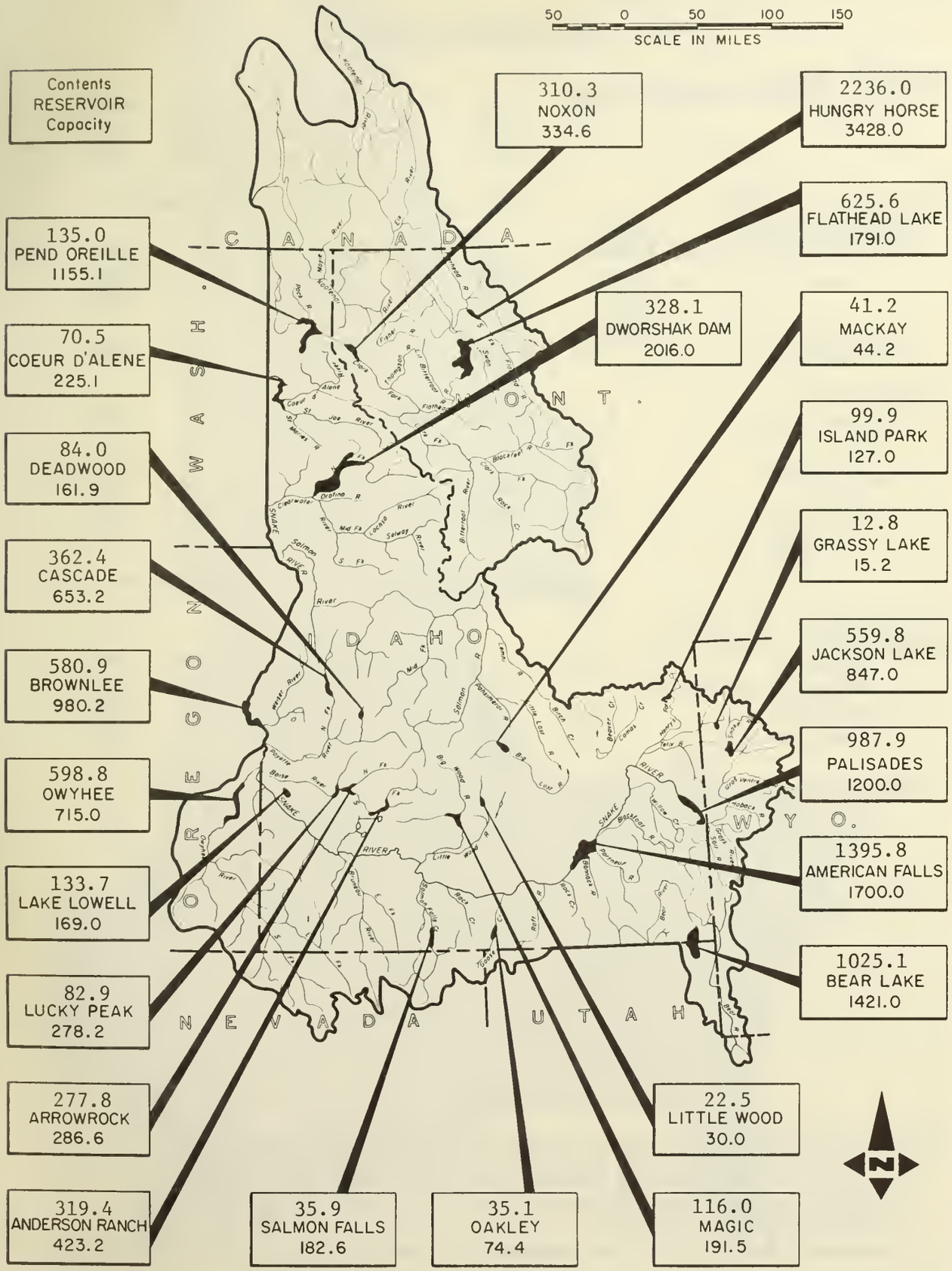
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2236.0	1641.0	2329.0*
Flathead	1791.0	625.6	681.2	1009.0*
Pend Oreille	1155.1	135.0	143.7	376.0
Noxon	334.6	310.3	261.8	300.6
Spokane				
Coeur d'Alene	225.1	70.5	134.1	121.6
SNAKE BASIN				
Snake				
Jackson Lake	847.0	559.8	333.2	615.6
Palisades	1200.0	987.9	294.9	903.6
American Falls	1700.0	1395.8	1189.9	1241.9
Island Park	127.0	99.9	98.9	114.6
Grassy Lake	15.2	12.8	8.9	10.6
Brownlee	980.2	580.9	475.2	465.2
Goose-Trapper Creeks				
Oakley	74.4	35.1	31.7	29.3
Salmon Falls Creek				
Salmon Falls	182.6	35.9	35.9	55.5
Big Lost				
Mackay	44.2	41.0	28.1	32.4
Big Wood				
Magic	191.5	116.0	21.0	113.9
Little Wood				
Little Wood	30.0	22.5	7.8	17.8
Fish Creek				
Carey Valley	14.4	5.3	3.0	--
Boise				
Anderson Ranch	423.2	319.4	79.7	256.5
Arrowrock	286.6	277.8	167.6	251.4
Lucky Peak	278.2	82.9	69.5	87.1
Lake Lowell (Deer Flat)	169.0	133.7	115.1	132.6
Owyhee				
Owyhee	715.0	598.8	310.4	491.3
Payette				
Cascade	653.2	362.4	283.3	338.8
Deadwood	161.9	84.0	51.8	85.9
Weiser				
Mann Creek	11.1	4.2	6.6	--
Clearwater				
Dworshak	2016.0	328.1	528.1	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1025.1	785.5	1030.6

*Period of Record.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MARCH 1, 1979



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST[c] Thousand Acre Feet	THIS YEAR FORECAST[c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	7200	81	Apr-Sep	8436	8883
		6300	82	Apr-Jul	7207	7727
		5100	83	Apr-Jun	5618	6150
PEND OREILLE RIVER						
Clark Fork River						
Whitehorse Rapids	(at)	12300	89	Apr-Sep	--	13781
		11200	89	Apr-Jul	--	12519
		9450	89	Apr-Jun	--	10633
Priest River 1/	(nr)	600*	71	Apr-Jul	--	841
SPOKANE RIVER						
Post Falls 2/	(at)	2850	98	Apr-Sep	--	2910
St. Joe River						
Calder	(at)	1280	98	Apr-Sep	--	1309
		1220	99	Apr-Jul	--	1238
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 3/	(nr)	870	96	Apr-Sep	950	903
Palisades Inflow 3/		3750	97	Apr-Sep	4698	3863
Heise 4/	(nr)	4080	96	Apr-Sep	--	4247
Blackfoot 5/	(nr)	4450	97	Apr-Jul	--	4579
Henrys Fork						
Ashton 6/	(nr)	750	102	Apr-Sep	--	737
Rexburg 7/	(nr)	1575	103	Apr-Sep	--	1534

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake. 2/ Observed flow corrected for storage in Coeur d'Alene Lake 3/ Corrected for storage in Jackson Lake. 4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.

+ 1963-1977

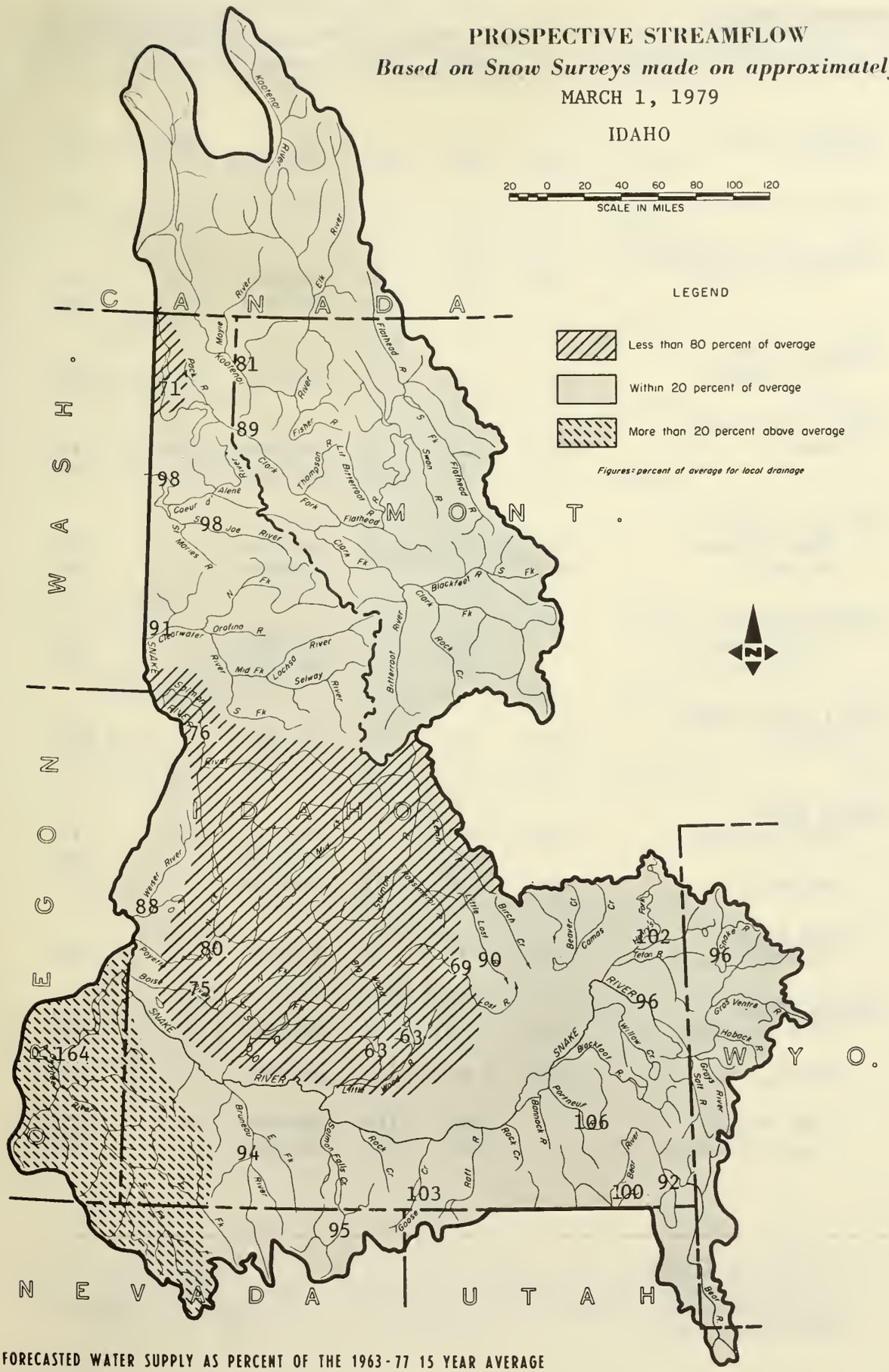
*National Weather Service forecast.

PROSPECTIVE STREAMFLOW

Based on Snow Surveys made on approximately

MARCH 1, 1979

IDAHO



FORECASTED WATER SUPPLY AS PERCENT OF THE 1963-77 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST[c] Thousand Acre Feet	THIS YEAR FORECAST[c] Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
Portneuf River						
Topaz	(at)	115	106	Mar-Sep	--	108
Oakley Reservoir Inflow		37	103	Mar-Sep	--	36
Salmon Falls Creek						
San Jacinto	(nr)	90	95	Mar-Sep	--	95
		86	96	Mar-Jul	--	90
Bruneau River						
Hot Springs	(nr)	235	94	Mar-Sep	--	251
Little Lost River						
Howe	(nr)	37	90	Apr-Sep	--	41
		24	92	Apr-Jun	--	26
Big Lost River						
Howell Ranch	(at)	160	71	Apr-Sep	--	225
Mackay 1/	(nr)	140	69	Apr-Sep	--	204
Big Wood River						
Magic Reservoir		200	63	Apr-Sep	--	319
Inflow 2/		220	66	Mar-Jul	--	332
Little Wood River						
Carey	(nr)	67	63	Apr-Sep	--	107
		55	63	Apr-Jun	--	87
Boise River						
Twin Springs	(nr)	550	75	Apr-Sep	--	733
		510	76	Apr-Jul	--	676
Boise 3/	(nr)	1270	75	Apr-Sep	--	1695
South Fork						
Anderson Dam 4/	(at)	475	76	Apr-Sep	--	622
Owyhee River						
Gold Cr., Nev. 5/	(nr)	30	130	Apr-Jul	--	23
Owyhee, Nev. 5/	(nr)	90	112	Apr-Jul	--	80
Lake Owyhee		546	164	Apr-Sep	--	332*
net inflow 6/		724	168	Mar-Jul	--	431*

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir 2/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 3/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 4/ Corrected for storage in Anderson Ranch Reservoir. 5/ Corrected for storage in Wild Horse Reservoir. 6/ From U.S.B.R. records of inflow.

\+ 1963-1977 period.

*1958-1972 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST (c) Thousand Acre Feet	THIS YEAR FORECAST (c) Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
Payette River						
Horseshoe Bend 1/	(nr)	1490	80	Apr-Sep	--	1860
North Fork						
Cascade 3/	(at)	450	80	Apr-Sep	--	564
Banks 3/	(nr)	580	80	Apr-Sep	--	726
Weiser River						
Weiser	(nr)	490	88	Mar-Sep	--	558
Salmon River						
Whitebird	(at)	5500*	76	Apr-Sep	--	7196
Clearwater River						
Spalding	(at)	7900*	91	Apr-Sep	--	8672
GREAT BASIN						
BEAR RIVER						
Harer	(at)	305	92	Apr-Sep	278	332
Montpelier Creek						
Montpelier	(nr)	15	121	Apr-Sep	--	12.4
Cub River						
Preston	(nr)	50	100	Apr-Sep	--	50.0

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4 Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth. + 1963-1977

*National Weather Service forecast.

VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

DRAINAGE DIVISIONS	Winter February 1979		Fall - Winter Nov. 78 - Feb. 79	
	Observed	Departure 2/	Observed	Departure 2/
Kootenai, Canada & U.S.	4.46	+2.51	9.05	-2.60
Flathead	2.57	+0.83	7.62	-1.58
Clark Fork	2.06	+0.79	6.03	-0.75
Pend Oreille-Spokane	4.83	+1.99	11.54	-3.48
Upper Snake	2.38	+0.53	8.85	+0.26
Snake River Plain	0.91	+0.13	3.69	-0.61
Salmon-Payette-Boise	3.05	+1.30	7.56	-2.50
Clearwater	3.54	+0.67	12.21	-2.71
Owyhee-Malheur	1.39	+0.54	4.76	-0.06

1/ Preliminary analysis and data by the National Weather Service and Meterological Service of Canada.

2/ Departure from 15-year (1963-77) drainage division average.

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
UPPER COLUMBIA RIVER BASIN						
PEND OREILLE - PRIEST RIVER						
Benton Meadow	2370	2/26	26	7.0	6.8	6.4
Benton Spring	4900	2/26	62	17.5	18.0	17.7
#Mosquito Ridge (A)	5110	3/2	106	31.4	38.9	34.6
Schweitzer Bowl	4500	3/1	84	24.3	27.1	28.1*
Schweitzer Ridge	6200	3/1	103	30.8	42.2	40.3*
HAYDEN LAKE						
Chilco Ridge	3650	2/26	33	10.0	6.6	--
Conie Ridge	3900	2/26	44	13.1	8.4	--
Corner Creek	3150	2/26	34	10.2	6.2	--
Sage Creek Saddle	4100	2/26	71	20.2	16.6	--
SPOKANE RIVER						
Above Burke	4100	2/28	67	23.6	19.1	22.9*
Copper Ridge	4800	2/28	85	27.7	20.3	25.1
#Forty-nine Meadows	4840	3/1	86	23.4	21.6	27.2
Fourth of July Summit	3200	3/1	42	12.4	8.0	8.9
Kellogg Peak (A)	5560	3/2	86	31.0	32.3	28.2*
Lookout	5120	2/28	94	27.8	33.0	31.0
#Lost Lake	6080	3/1	130	36.7	42.2	50.0*
Lower Sands Creek	3400	2/27	56	18.5	14.6	17.5*
Mosquito Ridge (A)	5110	3/2	106	31.4	38.9	34.6
Roland Summit (A)	5200	3/2	98	29.0	29.9	31.3
Sherwin	3200	2/28	49	15.7	8.8	13.3
Sunset (A)	5600	3/2	114	32.3	41.6	32.6*
LOWER SNAKE RIVER BASIN						
PALOUSE RIVER						
Crumarine Creek	3340	2/27	40	12.0	3.9	7.6
East Twin	4050	2/27	47	14.5	5.0	10.8
Howard Creek	3500	2/27	32	8.7	1.6	5.6
Moscow Mountain	4360	2/27	66	19.2	12.5	15.6
West Twin	4250	2/27	47	13.8	4.1	9.4
CLEARWATER RIVER						
Breezy Saddle	5000	3/1	88	24.0	23.5	--
Cayuse Airstrip	3500	3/1	43	12.2	8.9	12.0
Crater Meadows	6100	3/1	108	32.8	33.3	38.9
Crooked Fork	3600	2/26	42	12.2	13.8	12.7*
Fish Lake Airstrip	5650	3/1	106	31.0	28.7	36.3

*(b)1963-77, 15 year period. #Not located directly on this drainage. * Estimated 1963-77 15 year average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME		Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average [b]
Forty-nine Meadows		4840	3/1	86	23.4	21.6	27.2
Hemlock Butte		5500	3/1	125	35.1	37.9	43.6*
#Hoodoo Basin	Mont.	6000	2/27	123	42.3	46.7	45.4*
#Hoodoo Creek	Mont.	5900	2/27	120	40.2	43.4	42.0*
Kit Carson Pasture		4950	3/2	38	9.2	--	--
Lolo Pass		5240	2/26	88	30.7	31.0	27.5
Lost Lake		6080	3/1	130	36.7	42.2	50.0*
#Nez Perce Pass	Mont.	6575	3/2	57	18.6	19.7	15.7
Pierce Ranger Station		3170	2/28	42	12.8	9.6	10.9
Savage Pass		6170	2/26	78	24.8	27.6	24.1
Shanghai Summit		4600	3/1	84	23.9	21.4	24.1
WEBB CREEK							
Kruse Meadows		4800	2/27	40	11.5	--	--
Soldier Meadow		4640	2/27	37	11.1	--	--
Webb Creek		4720	2/27	39	11.4	--	--
SALMON RIVER							
#Banner Summit		7040	3/2	77	20.0	--	--
Big Creek Summit		6600	2/24	92	23.8	38.6	31.6
#Boulder Creek		5500	2/27	74	20.3	22.6	21.8
Brundage Mountain		7560	2/25	99	29.8	47.5	40.6*
#Deadwood Summit		6750	3/2	99	28.5	47.1	41.3*
Doublespring Pass (A)		8400	2/27	32	7.6	12.1	--
#Galena Summit		8780	3/1	54	13.5	25.0	20.6
#Gibbons Pass	Mont.	7100	2/27	63	18.9	25.1	21.2
#Lemhi Pass	Mont.	7480	3/4	40	9.8	10.8	8.1
#Lemhi Ridge	Mont.	8100	3/4	43	10.3	13.8	8.9*
Mill Creek Summit (A)		8800	2/27	48	12.1	21.3	20.3
Moose Creek		6200	2/28	52	14.8	19.2	15.6
Morgan Creek		7580	2/27	38	9.6	15.1	12.8
Perreau Meadows		8000	2/26	48	12.4	--	--
Redfish Lake Flat		6550	2/28	36	7.6	13.6	8.9*
#Rock Flat Summit		5340	2/25	56	16.2	19.3	16.7
#Secesh Summit		6520	3/3	90	26.0	35.1	31.0*
#Squaw Meadow		5900	3/3	88	26.7	35.7	31.9
Twin Peaks (A)		9170	2/27	51	12.9	27.1	23.0*
Vienna Mine		8950	2/26	78	24.0	37.8	32.1
Williams Creek Summit		7820	2/26	37	9.2	14.4	11.1
Lemhi River							
Above Gilmore		8250	2/27	33	6.6	9.1	8.2
Aspen-Hall Pass (A)		8110	2/27	33	6.9	9.7	8.5*
Copes Camp		7500	2/27	29	6.0	7.5	6.6
Hall Creek		7560	2/27	22	4.6	3.8	4.8*
Meadow Lake (A)		9200	2/27	49	13.7	16.7	16.5
Schwartz Lake		8500	2/27	37	8.5	11.1	10.8*

*(b)1963-77, 15 year period. #Not located directly on this drainage. * Estimated 1963-77 15 year average. (A) Aerial observation Water content estimated (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average 1/
MIDDLE SNAKE RIVER BASIN - NORTHSIDE						
LITTLE LOST RIVER						
Fairview Guard Station	6750	2/28	25	5.4	5.8	4.2
Hilts Creek	8000	2/26	31	6.7	--	--
Lost Garfield	6600	2/28	21	4.6	6.6	3.7
Moonshine	7500	2/28	37	7.7	11.0	9.3
Sawmill Canyon	6900	2/28	30	7.1	8.6	6.9
Wet Creek Summit	7760	2/26	33	7.8	9.2	10.7
BIG LOST RIVER						
Bear Canyon	7920	2/26	42	9.8	15.2	15.9
Copper Basin	7650	2/26	18	4.6	8.8	8.4
Fishpole Lake	9350	2/26	42	10.8	--	17.3*
Iron Bog	7650	2/27	37	8.1	14.9	12.8*
Leadbelt	6800	2/27	27	5.8	11.0	8.6
Lost-Wood Divide	7900	2/26	48	12.3	22.6	20.4*
Stickney Mill	7450	2/26	27	6.8	7.9	8.3
White Knob	7700	2/26	24	5.2	9.5	7.9
FISH CREEK						
Iron Mine Creek	6370	2/28	41	10.4	12.0	9.9
Telfer Ranch	6000	2/28	33	7.8	10.0	7.8
LITTLE WOOD RIVER						
#Bear Canyon	7920	2/26	42	9.8	15.2	15.9
Garfield Ranger Station	6560	2/27	31	7.8	13.7	9.8
Muldoon	6300	2/27	29	7.0	9.4	7.6
Swede Peak	7640	2/27	44	10.5	19.4	15.2
BIG WOOD RIVER						
Camas Creeks Divide	5720	2/27	32	9.4	12.2	10.0*
Chimney Creek	6400	2/27	41	10.7	--	--
#Couch Summit	6850	2/26	47	9.9	20.3	16.9*
Dollarhide Summit	8400	2/26	58	15.0	--	21.1
Galena	7300	3/1	55	12.1	21.6	17.0
Galena Summit	8780	3/1	54	13.5	25.0	20.6
Graham Ranch	6280	3/1	45	9.0	13.8	12.8
Hyndman Creek	7440	2/26	39	9.5	--	--
#Lost-Wood Divide	7900	2/26	48	12.3	22.6	20.4*
Mascot Mine	7760	2/26	37	9.2	15.1	13.1
Mount Baldy	9000	3/1	55	11.6	22.5	18.4
Soldier Ranger Station	6100	2/26	32	8.5	15.4	11.5
#Vienna Mine	8950	2/26	78	24.0	37.8	32.1

*(b)1963-77, 15 year period. #Not located directly on this drainage. 1/ Estimated 1963-77 15 year average. (A) Aerial observation. *Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
CANYON CREEK						
Bennett Mountain	6650	2/27	47	12.2	21.9	15.0*
#Camas Creeks Divide	5720	2/27	32	9.4	12.2	10.0*
Little Camas Flat	4950	2/27	16	5.1	9.4	5.9*
BOISE RIVER						
Atlanta Summit	7500	3/2	81	22.4	36.8	31.2*
Bad Bear	5500	2/27	42	11.5	15.9	13.5
#Bennett Mountain	6650	2/27	47	12.2	21.9	15.0*
#Bogus Basin	6340	2/27	61	17.5	25.3	20.7
Bogus Basin Road	5520	2/27	32	8.5	8.5	5.8
#Camas Creeks Divide	5720	2/27	32	9.4	12.2	10.0*
#Chimney Creek	6400	2/27	41	10.7	--	--
Couch Summit	6850	2/26	47	9.9	20.3	16.9*
Deadman Gulch	5600	3/3	48	14.0	16.7	14.9*
#Dollarhide Summit	8400	2/26	58	15.0	--	21.1
Graham Guard Station	5690	3/2	45	12.0	21.1	--
Jackson Peak	7070	3/2	74	20.7	33.3	27.3
#Little Camas Flat	4950	2/27	16	5.1	9.4	5.9*
Moores Creek Summit	6100	2/27	73	21.7	35.8	28.6
Prairie	4800	2/25	21	5.2	5.8	5.8
Road Creek	5550	3/2	30	8.2	--	10.4
#Soldier Ranger Station	6100	2/26	32	8.5	15.4	11.5
Trinity Mountain	7780	3/2	90	26.6	45.2	38.2
#Vienna Mine	8950	2/26	78	24.0	37.8	32.1
PAYETTE RIVER						
Banner Summit	7040	3/2	77	20.0	--	--
#Big Creek Summit	6600	2/24	92	23.8	38.6	31.6
Bogus Basin	6340	2/27	61	17.5	25.3	20.7
#Brundage Mountain	7560	2/25	99	29.8	47.5	40.6*
Cozy Cove	5400	3/2	51	13.0	18.6	15.2*
Crawford Ranger Station	4800	2/24	25	5.8	10.0	7.7
#Deadman Gulch	5600	3/3	48	14.0	16.7	14.9*
Deadwood Airstrip	5440	3/2	49	13.0	18.9	14.4
Deadwood Summit	7000	3/2	99	28.5	47.1	41.3*
#Jackson Peak	7070	3/2	74	20.7	33.3	27.3
Lake Fork	6000	2/25	51	11.9	19.2	14.6
Rock Flat Summit	5340	2/25	56	16.2	19.3	16.7
Secesh Summit	6520	3/3	90	26.0	35.1	31.0*
Squaw Meadow	5900	3/3	88	26.7	35.7	31.9
Tripod Summit	5200	3/4	55	13.8	20.3	16.7

*(b) 1963-77, 15 year period. # Not located directly on this drainage. * Estimated 1963-77 15 year average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

ORAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR Date of Survey	Snow Oepth (Inches)	Water Content (Inches)	PAST RECORO Water Content (inches) Last Year	Average b/
WEISER RIVER						
Boulder Creek	5500	2/27	74	20.3	22.6	21.8
Placer Creek	6000	3/26	48	12.3	18.3	16.5
MANN CREEK						
Mann Creek	6080 ~	2/25	70	19.2	26.1	22.5*
Robinson Creek Ridge	6220	2/25	61	17.2	22.1	18.4*
Sturgill Ridge	6680	2/25	83	25.2	29.3	26.1*
Thorson Cabin	5320	2/25	49	14.4	16.0	12.3*
MIDDLE SNAKE RIVER BASIN - SOUTHSIDE						
RAFT RIVER						
Boy Scout Camp	7750	2/26	39	11.3	11.6	12.8
Clear Creek Meadows Utah	9050	2/26	69	19.6	20.9	19.1
George Peak Utah	9000	2/26	70	20.0	24.5	--
Howell Canyon	7980	2/26	62	17.7	22.3	22.1
Indian Grove	7580	2/26	40	11.0	--	--
Logger Springs	8120	2/26	52	14.5	--	--
One Mile Summit Utah	7330	2/26	24	6.6	4.5	6.1
Sheep Hollow	6200	2/26	26	7.5	7.0	5.7*
Sublett	6000	2/26	39	11.3	11.0	10.1
GOOSE CREEK						
Badger Gulch	6660	2/26	40	11.4	11.1	10.7
Bostetter Ranger Station	7500	2/26	57	17.6	19.4	17.1
#Indian Grove	7580	2/26	40	11.0	--	--
#Logger Springs	8120	2/26	52	14.5	--	--
Vi Pont Utah	7670	2/26	51	15.5	15.0	12.9*
SALMON FALLS CREEK						
#Bear Creek Nev.	7800	2/27	59	17.0	20.7	18.0*
Cedar Creek	7000	2/27	41	12.3	8.9	9.3
Deadline	6900	2/27	64	22.4	19.2	18.8*
#Fox Creek Nev.	6800	2/27	40	10.5	10.7	9.7
Goat Creek Nev.	8800	2/27	46	13.0	17.6	15.7
#Hummingbird Springs Nev.	8940	2/27	59	16.7	22.8	19.5
Magic Mountain	6700	2/27	62	20.3	18.5	16.4
#Pole Creek Rgr. Sta. Nev.	8330	2/27	55	17.6	16.3	18.6
Shoshone Basin	5740	2/27	35	11.0	5.8	5.3
Wilson Creek	7500	2/27	47	14.5	12.2	11.0

*(b)1963-77, 15 year period. #Not located directly on this drainage. * Estimated 1963-77 15 year average. (1) Aerial observation Water content estimated (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent*

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME		Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average [b]
BRUNEAU RIVER							
Bear Creek	Nev.	7800	2/27	59	17.0	20.7	18.0*
Fox Creek	Nev.	6800	2/27	40	10.5	10.7	9.7
Hummingbird Springs	Nev.	8940	2/27	59	16.7	22.8	19.5
Pole Creek Ranger Sta.	Nev.	8330	2/27	55	17.6	16.3	18.6
#Seventy-six Creek	Nev.	7100	2/27	48	13.8	13.4	10.5
OWYHEE RIVER							
Antelope Ridge		6150	3/3	30	8.9	9.2	6.9*
Battle Creek (A)		5700	3/2	23	6.4	5.0	3.2
#Bear Creek	Nev.	7800	2/27	59	17.0	20.7	18.0*
Bull Basin (A)		5600	3/2	5	1.4	2.2	1.2
#Fox Creek	Nev.	6800	2/27	40	10.5	10.7	9.7
Hyde Pasture (A)		5800	3/2	27	7.6	7.0	5.3
Mud Flat		5720	3/3	30	8.6	11.3	6.0*
Red Canyon (A)		6650	3/2	15	4.2	8.4	6.6
#Seventy-six Creek	Nev.	7100	2/27	48	13.8	13.4	10.4*
Silver City		6400	2/24	50	16.6	15.6	13.7
South Mountain		6340	2/24	54	15.0	15.8	11.6
Vaught Ranch (A)		5950	3/2	27	7.6	7.0	4.1*
War Eagle (A)		7700	3/2	86	23.2	23.2	--
UPPER SNAKE RIVER BASIN							
CAMAS-BEAVER CREEKS							
Camp Creek		6800	2/28	32	7.3	9.3	9.8
Kilgore		6200	2/26	41	10.5	14.0	10.6
HENRYS FORK RIVER							
Big Springs		6400	2/27	62	18.1	23.5	18.7
Grassy Lake	Wyo.	7230	2/27	108	34.3	34.9	30.6
Island Park		6290	2/27	61	16.4	20.0	15.1
Sawtell Mountain		8720	2/27	87	23.6	36.2	28.4*
Targhee Pass		7000	2/28	49	11.8	16.0	13.6*
Valley View		6740	2/28	59	14.9	17.2	15.6
White Elephant		7700	2/27	74	18.7	31.6	18.4*
TETON RIVER							
Darby Canyon	Wyo.	8250	3/3	68	19.6	23.5	19.8*
Freds Mountain	Wyo.	8150	3/3	75	20.9	28.8	16.9*
Garns Mountain		8300	3/3	127	40.2	38.7	33.7*
Indian Meadows	Wyo.	8240	3/3	109	32.3	33.4	30.9*
Jackpine Creek	Wyo.	7350	3/3	78	21.0	26.0	19.6*

*(b)1963-77, 15 year period. #Not located directly on this drainage. * Estimated 1963-77 15 year average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME		Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (Inches) Last Year	PAST RECORD: Water Content (Inches) Average [6]
McRenolds Reservoir		6800	3/3	75	19.8	22.1	17.4*
Miles Creek	Wyo.	7300	3/3	49	12.9	17.1	11.7*
Phillips Bench	Wyo.	8200	2/26	100	30.4	35.8	23.2*
Pine Creek Pass		6750	3/3	60	20.0	19.4	15.6
State Line		6650	3/3	55	16.3	14.9	12.7
Teton Pass W.S.	Wyo.	8400	2/28	88	28.3	30.8	21.0*
WILLOW CREEK							
Aspen Grove		6500	2/26	43	11.3	11.5	10.7*
Birch Creek		6800	2/26	44	12.0	9.9	10.7*
Blue Ridge		6800	2/26	53	14.3	17.2	--
Bone		6200	2/26	34	9.9	8.5	7.4*
Brockman Station		6430	2/26	43	13.0	12.2	--
Hell Creek		7100	2/26	54	15.5	16.6	--
Mud Creek		7150	2/26	44	11.9	17.9	--
Sheep Mountain		6570	2/26	43	11.2	13.5	12.5*
Tex Creek		6650	2/26	38	10.5	9.6	8.5*
Henry Creek		5650	2/26	24	6.4	8.6	--
BLACKFOOT RIVER							
Austin Bros. Ranch		6400	2/28	41	11.0	12.7	8.3
Slug Creek Divide		7230	2/27	50	14.8	21.4	14.8
Somsen Ranch		7000	2/28	52	17.8	18.2	12.7
PORTNEUF RIVER							
Dempsey Creek		6100	2/25	47	11.6	15.3	11.0
Lower Pebble		5800	2/25	53	15.5	15.5	12.3*
Mink Creek		6300	2/24	57	14.1	15.2	15.5
Pebble Creek		6550	2/25	54	15.4	18.0	14.5
TOPONCE CREEK							
Cold Springs		7000	3/3	61	21.0	--	--
Putnam		7200	3/3	61	19.4	--	--
Toponce		6350	3/3	49	15.2	--	--
GREAT BASIN							
BEAR RIVER							
Emigrant Summit		7380	2/27	78	23.3	28.2	21.7
Emigration Canyon		6500	2/27	43	12.4	13.2	9.7

(6) 1963-77, 15 year period. # Not located directly on this drainage. ' Estimated 1963-77 15 year average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent (R) Radioactive Gage snow-water equivalent

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average [b]
MONTPELIER CREEK						
Giveout	6840	2/27	47	12.6	15.6	11.1
Little Beaver	6970	2/27	53	15.6	19.8	14.0
Lower Home Canyon	7640	2/26	48	13.2	17.3	12.2*
Montpelier Creek	6570	2/27	37	10.4	13.5	7.5
Upper Home Canyon	8560	2/26	65	20.0	28.4	19.9*
Whiskey Flat	6960	2/27	36	9.0	13.2	8.5
MINK CREEK						
Christensen Ranch	5400	2/26	43	10.9	11.2	7.9
Dry Basin	7900	2/26	87	26.9	33.8	24.2*
#Emigrant Summit	7380	2/27	78	23.3	28.2	21.7
Horseshoe Basin	8000	2/26	74	22.5	31.9	22.0*
Liberty Spring	8600	2/26	105	35.0	44.4	32.7
Strawberry Creek	5800	2/27	49	13.6	12.4	9.6
Strawberry Mink Divide	6800	2/26	73	22.0	25.6	18.7
CUB RIVER						
Cub River Ranger Sta.	5400	2/26	43	11.5	11.0	8.4
#Franklin Basin	8000	2/26	74	22.6	26.7	22.7
Willow Flat	6100	2/26	62	19.9	18.7	13.9
Worm Creek	6660	2/26	66	19.7	22.5	--
MALAD RIVER						
Cliff Canyon	7200	2/26	34	8.6	12.3	--
Daniels Creek	6400	2/26	32	7.7	7.9	--
Dry Creek Flat	6480	2/26	36	10.7	11.3	7.4
Lower Elkhorn	7000	2/26	46	14.5	19.9	12.7*
Oxford Mountain	6800	2/26	46	13.1	12.6	9.4
Upper Elkhorn	7100	2/26	61	18.2	24.4	16.4*

*(b)1963-77, 15 year period. #Not located directly on this drainage. * Estimated 1963-77 15 year average. (1) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent*

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U.S. Army Engineers

U.S. Department of Agriculture
Forest Service
Agricultural Research Service
Statistical Reporting Service

U.S. Department of Commerce
NOAA, National Weather Service

U.S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

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SOIL CONSERVATION SERVICE
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Water Supply Outlook For Idaho

SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
APR. 1, 1979

IMPORTANT NOTICE INSIDE

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: VIEW OF A SNOTEL DATA SITE IN THE SNOWY RANGE IN WYOMING. TALL CYLINDRICAL DEVICE IS A PRECIPITATION GAGE. SNOW PILLOWS ON THE GROUND NOT VISIBLE DUE TO SNOW COVER. SHELTER HOUSE, ANTENNA TOWER, ANTENNA, AND TEMPERATURE UNIT ARE VISIBLE BEHIND THE PRECIPITATION GAGE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK

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WATER SUPPLY OUTLOOK for IDAHO

GENERAL SUMMARY FOR APRIL 1 1979

April 1 snow surveys indicated that climatic conditions during March caused very little change in the mountain snowpack in relation to normal. Snowpack accumulation varies from 65 percent of average on the Canyon Creek drainage to 114 percent of normal on the Portneuf River and Cub River watersheds.

Generally the maximum snowpack has accumulated by April 1 each year and most accurately reflects the volume of runoff to be expected during the irrigation season.

Seasonal streamflow forecasts vary from a low of 45 percent of average for Magic Reservoir Inflow on the Big Wood River drainage to 121 percent of normal for Montpelier Creek drainage in southeastern Idaho.

Reservoir storage is good with seventeen irrigation reservoirs in southern Idaho showing a combined storage volume of 107 percent of normal.

The National Weather Service reports that valley precipitation during March was below normal while temperatures were slightly above average throughout Idaho.

Upper Columbia River Basin

Snowpack accumulation for these watersheds varies from 74% of average for the Priest River drainage in Idaho to 94% of normal for the Upper Clark Fork watershed in western Montana. The Spokane River watershed has 84% of normal snowpack. Seasonal runoff forecasts vary from 62% for the Priest River at Priest River, Idaho to 86% of normal for Clark Fork River at Whitehorse Rapids, Montana. Combined storage volume of five major reservoirs is 94% of average.

Lower Snake River Basin

Snowpack accumulation varies from 76% of average on the Salmon River watershed to 94 percent of normal on the Palouse River drainage. Seasonal streamflow forecasts for the Salmon River at Whitebird and the Clearwater River at Spalding are 75% and 76% of normal respectively.

Middle Snake River Basin - Northside

Watersheds in this area have the poorest snowpack in the state, ranging from 65% of average in the Canyon Creek drainage north of Mountain Home to 93% of normal on the Little Lost River watershed above Howe. Seasonal runoff is forecast at 45% of normal for Magic Reservoir Inflow on the Big Wood River to 90% of average for the Weiser River near Weiser. The combined storage of nine irrigation reservoirs is 120% of normal.

Middle Snake River Basin - Southside

The accumulated snowpack on these tributary watersheds ranges from 82% of average on the Bruneau River drainage to 106% of normal on the Jordan Creek watershed above Jordan Valley, Oregon. The snowpack on the entire Owyhee River watershed in Idaho, Nevada and Oregon is 146% of normal. Runoff forecasts range from 53% of average for Salmon Falls Creek near San Jacinto, Nevada to 164% for Lake Owyhee net inflow in Oregon. Combined storage in Oakley and Salmon Falls Reservoir is 91% of normal, and Owyhee Reservoir is 118% of average.

Upper Snake River Basin

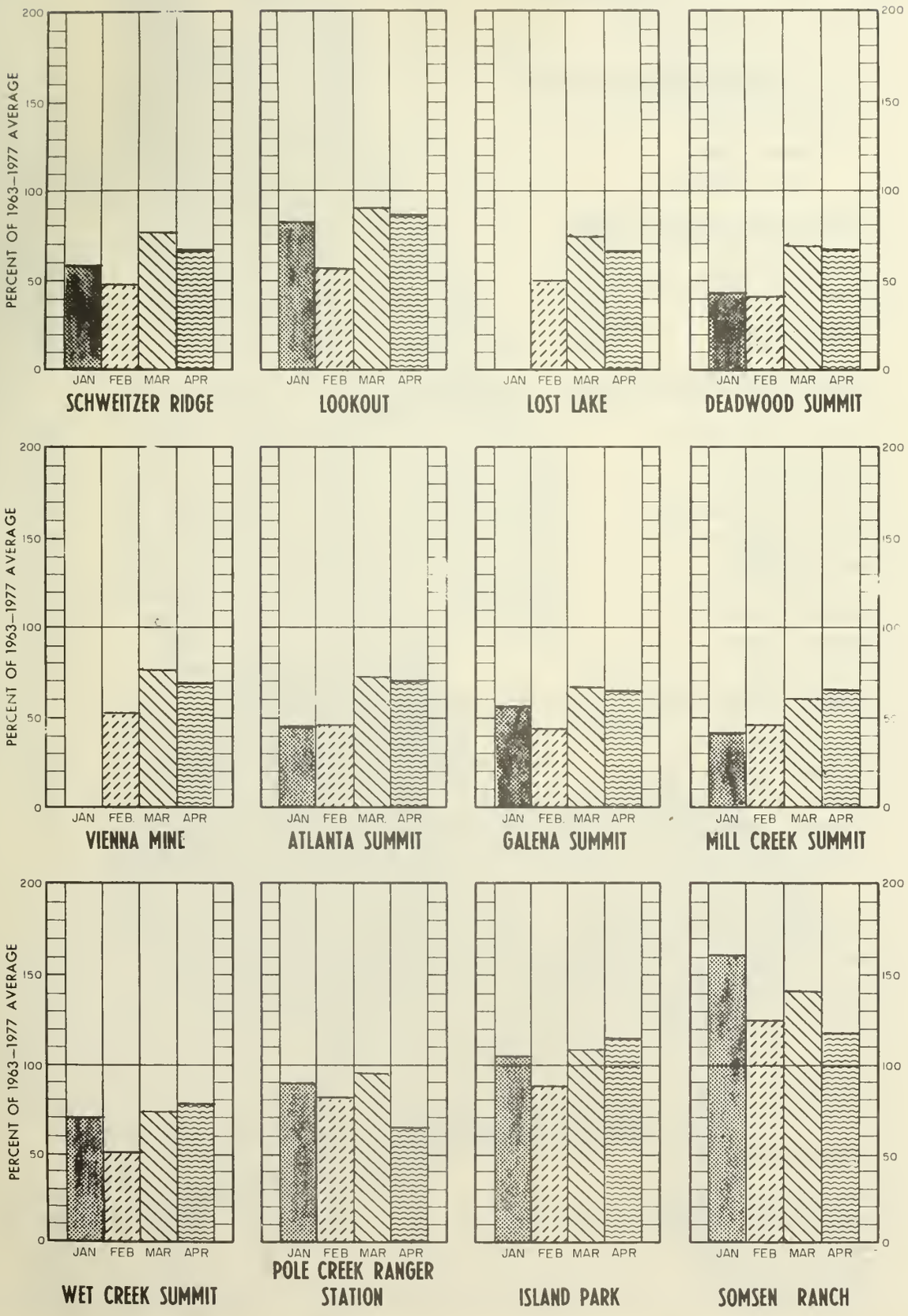
Snowpack accumulation varies from 90% of average on the Camas-Beaver Creeks watersheds to 114% of normal on the Portneuf River drainage. The Snake River watershed above Palisades Reservoir has 101% of normal snowpack. Seasonal forecast ranges from 91% of average for Snake River near Heise to 98% for Henry's Fork near Rexburg. Combined storage for five reservoirs is 101% of normal.

Great Basin

The snowpack accumulation on the Idaho tributaries to the Bear River ranges from 106% of average on the Mink Creek drainage to 114% of normal on the Cub River watershed. The Upper Bear River watershed in Utah has 96% of normal snowpack. Seasonal streamflow forecasts vary from 92% of average for the Bear River at Harer, Idaho to 123% of normal for Montpelier Creek near Montpelier.

SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1963 – 1977 15 Year Average

APRIL 1, 1979



COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF LAST YEAR	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF 1963-77 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Kootenai River	36	96	75
Pend Oreille River	107	102	92
Clark Fork River	75	105	94
Flathead River	32	97	88
Priest River	4	85	74
Spokane River	15	115	84
Hayden Creek	4	285	-
LOWER SNAKE RIVER BASIN			
Palouse River	5	430	94
Clearwater River	18	104	82
Salmon River	24	80	76
Lemhi River	6	105	82
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River	5	128	93
Big Lost River	9	74	69
Fish Creek	2	57	90
Little Wood River	4	73	69
Big Wood River	11	65	68
Boise River	17-18	56	68
Canyon Creek	3	59	65
Payette River	14	75	75
Weiser River	6	94	85
Mann Creek	4	87	85
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River	6	88	85
Goose-Trapper Creek	3	108	105
Salmon Falls Creek	8	93	89
Bruneau River	5	82	82
Owyhee River	7	153	146
Jordan Creek	2	119	106
UPPER SNAKE RIVER BASIN			
Snake Basin - Above Palisades Res.	21	81	101
Camas-Beaver Creeks	3	92	90
Henrys Fork River	7-11	97	101
Teton River	11	95	107
Willow Creek	5-9	116	113
Blackfoot River	3	104	108
Portneuf River	4	120	114
GREAT BASIN			
Bear River - Upper	9	79	96
Bear River - Lower	25	95	106
Montpelier Creek	6	85	107
Mink Creek	7	89	106
Cub River	3	111	114
Malad River	4-6	110	107

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SNOW WATER DEPTHS

As percent of 1963-77 15 year average

APRIL 1, 1979

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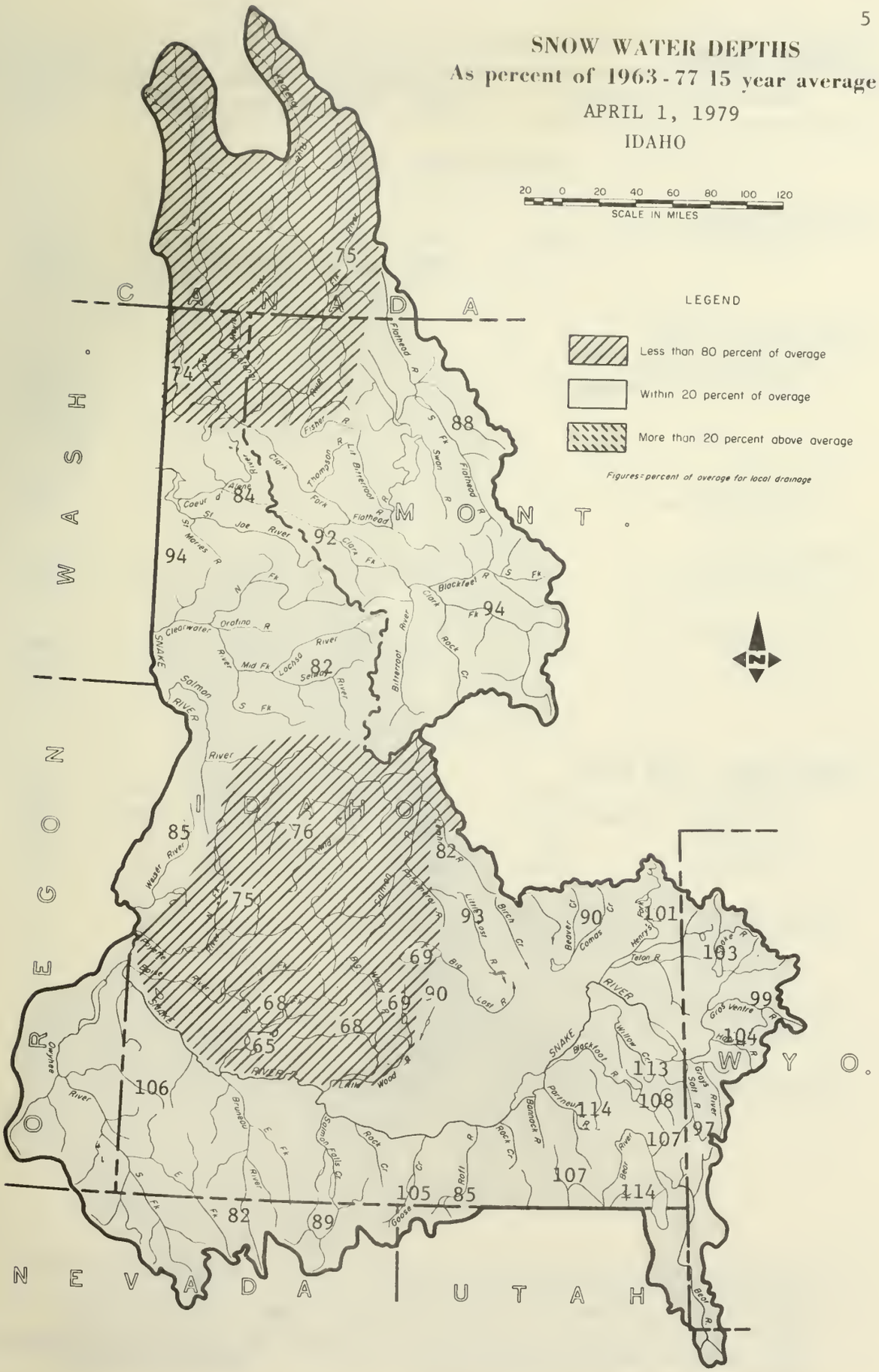

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	6950	78	Apr-Sep	8436	8883
		6060	78	Apr-Jul	7207	7727
		4850	79	Apr-Jun	5618	6150
PEND OREILLE RIVER						
Clark Fork River						
Whitehorse Rapids	(at)	12100	86	Apr-Sep	--	13781
		11000	86	Apr-Jul	--	12519
		9150	86	Apr-Jun	--	10633
Priest River						
Priest River 1/*	(at)	525	62	Apr-Jul	--	841
SPOKANE RIVER						
Post Falls 2/	(at)	2400	82	Apr-Sep	--	2910
St. Joe River						
Calder	(at)	1050	80	Apr-Sep	--	1309
		990	80	Apr-Jul	--	1238
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 3/	(at)	850	89	Apr-Sep	950	903
Palisades Inflow 3/		3650	94	Apr-Sep	4698	3863
Heise 4/	(nr)	3900	91	Apr-Sep	--	4247
Blackfoot 5/	(nr)	4100	90	Apr-Jul	--	4579
Henrys Fork						
Ashton 6/	(nr)	715	97	Apr-Sep	--	737
Rexburg 7/	(nr)	1500	98	Apr-Sep	--	1534
Portneuf River						
Topaz	(at)	105	97	Mar-Sep	--	108
Oakley Reservoir Inflow		30	83	Mar-Sep	--	36

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake. 2/ Observed flow corrected for storage in Coeur d'Alene Lake 3/ Corrected for storage in Jackson Lake. 4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.

*National Weather Service forecast.

+1963-77 period.

PROSPECTIVE STREAMFLOW

Based on Snow Surveys made on approximately

APRIL 1, 1979

IDAHO

FORECASTED WATER SUPPLY AS PERCENT OF THE 1963-77 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
Salmon Falls Creek						
San Jacinto	(nr)	50	53	Mar-Sep	--	95
		48	53	Mar-Jul	--	90
Bruneau River						
Hot Springs	(nr)	160	64	Mar-Sep	--	251
Little Lost River						
Howe	(nr)	38	86	Apr-Sep	--	44
Wet Creek	(bl)	35	85	Apr-Sep	--	41
		23	88	Apr-Jun	--	26
Big Lost River						
Howell	(at)	150	67	Apr-Sep	--	225
		105	68	Apr-Jun	--	154
Mackay 1/	(nr)	130	64	Apr-Sep	--	204
Big Wood River						
Magic Reservoir		145	45	Apr-Sep	--	319
Inflow 2/		150	45	Mar-Jul	--	332
Little Wood River						
Carey	(nr)	63	59	Apr-Sep	--	107
		51	59	Apr-Jun	--	87
Boise River						
Twin Springs	(nr)	505	69	Apr-Sep	--	733
		475	70	Apr-Jul	--	676
Boise 3/*	(nr)	1150	68	Apr-Sep	--	1695
		945	69	Apr-Jun	--	1369
		1050	68	Apr-Jul	--	1545
South Fork						
Anderson Dam 4/	(at)	420	67	Apr-Sep	--	622
Owyhee River						
Gold Cr., Nev. 5/	(nr)	32	139	Apr-Jul	--	22
Owyhee, Nev. 5/	(nr)	95	125	Apr-Jul	--	80
Lake Owyhee		538	162	Apr-Sep	--	332*
net inflow 6/		511	165	Apr-Jul	--	431*

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir. 2/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 3/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 4/ Corrected for storage in Anderson Ranch Reservoir. 5/ Corrected for storage in Wild Horse Reservoir. 6/ From U.S.B.R. records of inflow.

+1963-77 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST(c) Thousand Acre Feet	THIS YEAR FORECAST(c) Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average †
Payette River						
Horseshoe Bend 1/	(nr)	1350	73	Apr-Sep	--	1860
North Fork						
Cascade 3/	(at)	420	74	Apr-Sep	--	564
Banks 3/	(nr)	540	74	Apr-Sep	--	726
Weiser River						
Weiser	(nr)	500	90	Mar-Sep	--	558
Salmon River						
Whitebird*	(at)	5430	75	Apr-Sep	--	7196
Clearwater River						
Spalding*	(at)	6590	76	Apr-Sep	--	8672
GREAT BASIN						
BEAR RIVER						
Harer	(at)	305	92	Apr-Sep	278	332
Montpelier Creek						
Montpelier	(nr)	15.3	123	Apr-Sep	--	12.4*
Cub River						
Preston	(nr)	50	100	Apr-Sep	--	50.0

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4/ Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth. +1963-77 period.

*National Weather Service forecast.

RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2187.0	1605.0	2157.0**
Flathead	1791.0	664.7	695.5	794.5**
Pend Oreille	1155.1	168.1	259.4	432.9
Noxon	334.6	320.8	255.0	198.5**
Spokane				
Coeur d'Alene	225.1	152.1	277.8	149.9
SNAKE BASIN				
Snake				
Jackson Lake	847.0	531.9	325.8	612.9
Palisades	1200.0	804.3	285.8	815.9
American Falls	1700.0	1548.0	1381.1	1390.8
Island Park	127.0	99.8	104.9	122.5
Grassy Lake	15.2	12.9	9.3	10.8
Brownlee	980.2	706.1	402.0	395.5
Goose-Trapper Creeks				
Oakley	74.4	42.8	36.0	33.1
Salmon Falls Creek				
Salmon Falls	182.6	45.5	47.7	63.7
Big Lost				
Mackay	44.2	43.1	31.4	32.9
Big Wood				
Magic	191.5	145.6	51.0	129.9
Little Wood				
Little Wood	30.0	26.5	13.6	18.5
Fish Creek				
Carey Valley	14.4	6.9	6.6	--
Boise				
Anderson Ranch	423.2	327.4	111.2	248.5
Arrowrock	286.6	279.7	277.9	226.6
Lucky Peak	278.2	169.0	92.6	115.5
Lake Lowell (Deer Flat)	169.0	133.2	147.5	139.3
Owyhee				
Owyhee	715.0	650.1	549.9	553.2
Payette				
Cascade	653.2	351.4	316.2	305.4
Deadwood	161.9	88.3	59.5	92.0
Weiser				
Mann Creek	11.1	9.5	9.8	--
Clearwater				
Dworshak	2016.0	457.7	407.0	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1390.6	801.6	1038.1

* Period of Record.
**1958-72 15 year average.

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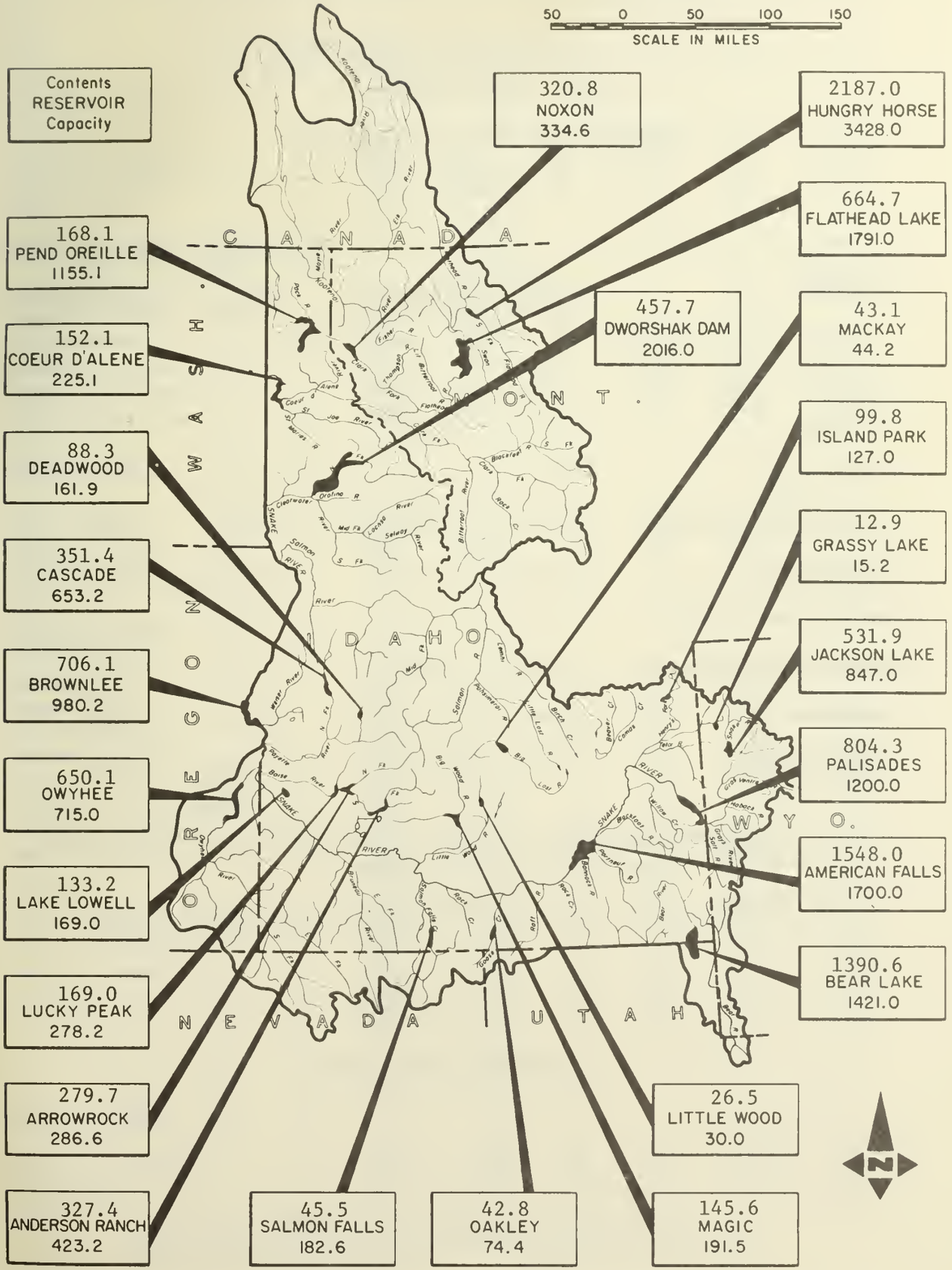
RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

APRIL 1, 1979



VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

DRAINAGE DIVISIONS	Winter March 1979		Fall - Winter Nov. 78 - Mar. 79	
	Observed	Departure 2/	Observed	Departure 2/
Kootenai, Canada & U.S.	.98	- .76	9.73	-3.66
Flathead	1.69	+ .16	9.43	-1.30
Clark Fork	1.05	- .17	7.08	- .92
Pend Oreille-Spokane	1.44	-1.09	13.13	-4.42
Upper Snake	1.38	- .14	10.34	+ .23
Snake River Plain	.67	- .11	4.35	- .73
Salmon-Payette-Boise	.87	- .86	8.57	-3.22
Clearwater	2.09	- .87	14.63	-3.25
Owyhee-Malheur	.95	+ .10	5.79	+ .12

1/ Preliminary analysis and data by the National Weather Service and Meterological Service of Canada.

2/ Departure from 15-year (1963-77) drainage division average.

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (Inches) Last Year	PAST RECORD: Water Content (Inches) Average 1/
UPPER COLUMBIA RIVER BASIN						
KOOTENAI RIVER						
#Bear Mountain	5400	4/3	115	45.7	47.1	64.2*
Halverson Creek	4850	4/3	91	35.0	40.8	44.2*
Smith Creek	4800	3/28	85	31.4	37.6	48.8
PEND OREILLE - PRIEST RIVER						
Bear Mountain	5400	4/3	115	45.7	47.1	64.2*
Benton Meadow	2370	3/28	14	5.0	1.5	5.0
Benton Spring	4900	3/28	45	16.6	16.7	20.2
#Mosquito Ridge	5110	4/3	82	31.0	33.2	40.2
Schweitzer Bowl	4500	4/2	55	22.8	23.1	30.9*
Schweitzer Ridge	6200	4/2	81	32.0	48.2	47.8*
HAYDEN LAKE						
Chilco Ridge	3650	3/29	20	6.2	0.0	--
Conie Ridge	3900	3/29	23	8.6	0.4	--
Corner Creek	3150	3/29	27	8.9	2.4	--
Sage Creek Saddle	4100	3/29	52	18.4	12.0	--
SPOKANE RIVER						
Above Burke	4100	3/30	59	22.1	18.5	24.7*
Above Roland	4350	4/4	83	32.6	26.8	35.2*
Below Roland	3840	4/4	41	17.2	11.6	16.5*
Copper Ridge	4800	3/28	65	26.8	16.0	29.7
#Forty-nine Meadows	4840	4/1	76	24.7	19.8	32.5
Fourth of July Summit	3200	3/28	28	8.5	0.0	8.8
Granite Peak	6000	4/1	122	36.5	34.4	46.8
Kellogg Peak	5560	4/3	75	27.8	24.8	35.4
Lookout	5120	3/30	84	32.4	32.2	37.1
#Lost Lake	6080	4/1	134	40.5	44.3	61.8*
Lower Sands Creek	3400	3/28	59	19.2	16.2	21.9
Mosquito Ridge	5110	4/3	82	31.0	33.2	40.2
Roland Summit	5200	4/3	91	37.4	36.6	40.1*
Sherwin	3200	3/30	38	14.0	6.6	13.8
Sunset	5600	4/3	91	32.0	30.5	36.2
LOWER SNAKE RIVER BASIN						
PALOUSE RIVER						
Crumarine Creek	3340	3/29	5	2.0	0.0	4.4
East Twin	4050	3/29	29	11.4	0.0	9.8

(b)1963-77, 15 year period. #Not located directly on this drainage. 1/ Estimated 1963-77 15 year average. (A) Aerial observation Water content estimated (SP) Pressure Pillow snow-water equivalent (R) Radioactive Gage snow-water equivalent

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME		Elevation	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	PAST RECORD Water Content (inches) Average 1/
Howard Creek		3500	3/29	8	2.7	0.0	3.0*
Moscow Mountain		4360	3/29	55	20.0	9.7	18.0
West Twin		4250	3/30	15	5.7	0.0	9.1
CLEARWATER RIVER							
Breezy Saddle		5000	4/1	78	25.6	21.7	--
Buck Meadows		5650	4/6	69	23.6	25.9	31.2*
Cayuse Airstrip		3500	4/1	31	9.7	2.0	9.8
Coolwater Mountain		6200	4/6	98	32.0	33.3	33.0
Crater Meadows		6100	4/1	114	37.8	38.4	46.3
Crooked Fork		3600	3/29	28	11.0	10.0	14.1*
Fish Lake Airstrip		5650	4/6	101	35.7	34.2	41.2
Forty-nine Meadows		4840	4/1	76	24.7	19.8	32.5
Goat Lake		6500	4/1	132	40.4	44.7	49.3
#Granite Peak		6000	4/1	122	36.5	34.4	46.8
Hemlock Butte		5500	4/1	122	38.9	37.8	51.3
#Hoodoo Basin	Mont.	6000	4/3	130	46.1	47.7	53.6*
#Hoodoo Creek	Mont.	5900	4/3	128	45.1	43.5	49.9
Kit Carson Pasture		4950	4/6	22	9.6	--	9.1
Lolo Pass		5240	3/29	83	32.5	28.4	32.6
Lost Lake		6080	4/1	134	40.5	44.3	61.8*
Mountain Meadows		6300	4/6	55	18.0	20.8	26.1*
#Nez Perce Pass	Mont.	6575	4/6	45	18.6	19.2	19.0
Pierce Ranger Station		3170	3/28	27	9.4	3.0	10.6
Savage Pass		6170	3/29	78	27.1	26.8	28.6
Shanghai Summit		4600	4/1	73	23.7	17.9	27.2
WEBB CREEK							
Kruse Meadows		4800	3/30	36	11.9	--	--
Soldier Meadow		4640	3/30	26	10.1	--	--
Webb Creek		4720	3/30	36	12.7	--	--
SALMON RIVER							
Banner Summit		7040	4/3	63	21.3	--	--
Big Creek Summit		6600	3/28	80	27.5	41.2	37.5
Borah (A)		8250	3/30	20	4.6	5.1	--
#Boulder Creek		5500	3/29	49	19.6	15.7	25.1
Brundage Mountain		7560	3/29	98	35.5	51.5	48.6*
#Deadwood Summit		6750	4/3	84	31.6	48.3	47.5
Double Springs Pass (A)		8400	3/30	29	6.7	10.4	--
#Galena Summit		8780	3/27	60	16.1	23.3	25.2
#Gibbons Pass	Mont.	7100	3/29	60	22.0	25.9	24.8
Leatherman Pass		9800	3/30	58	19.4	21.6	26.1*
#Lemhi Pass	Mont.	7480	4/1	37	10.0	11.0	9.9
#Lemhi Ridge	Mont.	8100	4/1	41	10.6	12.9	10.9*

*1/ 1963-77, 15 year period. # Not located directly on this drainage. * Estimated 1963-77 15 year average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

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SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average b/
Mill Creek Summit	8800	4/2	51	15.6	20.4	24.1
Moose Creek	6200	3/30	43	15.8	18.4	17.1
Morgan Creek	7580	4/2	40	11.1	14.2	14.9
Perreau Meadows	8500	3/29	50	15.6	--	--
Redfish Lake Flat	6550	3/30	22	6.3	12.7	10.9*
#Rock Flat Summit	5340	3/29	50	15.8	19.3	19.6
#Secesh Summit	6520	4/1	77	28.7	35.2	37.2*
#Squaw Meadow	5900	4/1	77	29.0	35.5	37.4
Vienna Mine	8950	4/3	77	26.6	39.5	38.7*
Williams Creek Summit	7800	3/29	42	11.6	14.4	13.5
LEMHI RIVER						
Above Gilmore	8250	3/30	33	8.4	8.1	10.6
Aspen-Hall Pass (A)	8110	3/30	33	7.6	8.9	10.6*
Copes Camp	7500	3/30	33	8.0	7.5	8.8
Hall Creek	7560	3/30	21	5.0	2.9	5.9*
Meadow Lake	9200	3/30	50	16.7	16.5	20.8
Schwartz Lake	8500	3/30	45	12.3	11.3	13.8
MIDDLE SNAKE RIVER BASIN - NORTHSIDE						
LITTLE LOST RIVER						
Fairview Guard Station	6750	3/30	17	5.0	0.0	3.2
Hilts Creek	8000	3/27	36	10.6	--	--
Lost Garfield	6600	3/30	10	3.2	0.0	3.0
Moonshine	7500	3/30	34	10.1	11.5	11.2
Sawmill Canyon	6900	3/30	25	7.4	6.8	8.1
Wet Creek Summit	7760	3/27	36	10.6	10.0	13.6
BIG LOST RIVER						
Bear Canyon	7920	4/3	47	12.1	15.8	19.9
Copper Basin	7650	4/2	23	6.2	11.4	10.9
Dry Fork (A)	7340	3/28	33	11.6	--	--
Fishpole Lake	9350	4/3	51	14.8	25.4	21.1*
Iron Bog	7650	3/28	36	12.6	12.2	14.1
Leadbelt	6800	3/28	24	6.5	9.3	9.4
#Leatherman Pass	9800	3/30	58	19.4	21.6	26.1*
Lost-Wood Divide	7900	4/2	48	14.5	22.6	24.8
Stickney Mill	7450	4/2	28	6.2	8.0	10.6
White Knob	7700	3/26	29	8.7	9.6	9.8
FISH CREEK						
Iron Mine Creek	6370	3/28	33	9.4	10.2	10.5
Telfer Ranch	6000	3/28	16	6.1	6.8	6.8

*(b) 1963-77, 15 year period. #Not located directly on this drainage. * Estimated 1963-77 15 year average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average 1/
LITTLE WOOD RIVER						
#Bear Canyon	7920	4/3	47	12.1	15.8	19.9
Garfield Ranger Station	6560	3/30	24	7.4	11.7	10.2
Muldoon	6300	3/30	20	6.2	6.4	7.1
Swede Peak	7640	3/30	43	12.4	18.6	18.1
BIG WOOD RIVER						
Camas Creeks Divide	5720	3/31	15	4.8	5.6	8.8*
Chimney Creek	6400	3/31	26	9.1	--	--
#Couch Summit	6850	3/30	40	13.0	22.0	18.7
Dollarhide Summit	8400	4/3	59	18.0	32.0	25.1
Galena	7300	3/27	44	13.1	20.7	19.5
Galena Summit	8780	3/27	60	16.1	23.3	25.2
Graham Ranch	6280	3/27	36	11.1	13.2	14.4
Hyndman Creek	7440	4/3	35	10.6	--	--
#Lost-Wood Divide	7900	4/2	48	14.5	22.6	24.8
Mascot Mine	7760	4/3	41	11.9	16.4	15.5
Mount Baldy	9000	3/30	52	14.8	24.3	21.4
Soldier Ranger Station	6100	3/30	21	7.3	13.6	10.3
#Vienna Mine	8950	4/3	77	26.6	39.5	38.7*
CANYON CREEK						
Bennett Mountain	6650	3/31	44	14.8	24.8	17.5
#Camas Creeks Divide	5720	3/31	15	4.8	5.6	8.8*
Little Camas Flat	4950	3/31	0	0.0	3.0	4.0
BOISE RIVER						
Atlanta Summit	7500	4/3	74	25.2	38.2	36.2
Bad Bear	5500	3/29	27	9.9	12.4	13.9
#Bennett Mountain	6650	3/31	44	14.8	24.8	17.5
#Bogus Basin	6340	3/39	55	20.2	24.5	24.5
Bogus Basin Road	5520	3/29	0	0.0	0.0	2.2
#Camas Creeks Divide	5720	3/31	15	4.8	5.6	8.8*
Couch Summit	6850	3/30	40	13.0	22.0	18.7
Deadman Gulch	5600	4/1	37	14.2	16.2	16.8*
#Dollarhide Summit	8400	4/3	59	18.0	32.0	25.1
Graham Guard Station	5690	4/3	31	11.0	18.1	--
Jackson Peak	7070	4/3	67	22.8	34.8	33.1
#Little Camas Flat	4950	3/31	0	0.0	3.0	4.0
Moores Creek Summit	6100	3/29	64	23.8	34.2	33.6
Prairie	4800	3/29	0	0.0	0.0	3.4
Road Creek	5550	4/3	0	0.0	7.8	9.2*
#Soldier Ranger Station	6100	3/30	21	7.3	13.6	10.3
Trinity Mountain	7780	4/3	82	30.2	46.7	43.2
#Vienna Mine	8950	4/3	77	26.6	39.5	38.7*

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SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average [b]
PAYETTE RIVER						
Banner Summit	7040	4/3	63	21.3	--	--
#Big Creek Summit	6600	3/28	80	27.5	41.2	37.5
Bogus Basin	6340	3/29	55	20.2	24.5	24.5
#Brundage Mountain	7560	3/29	98	35.5	51.5	48.6*
Cozy Cove	5400	4/3	30	11.0	13.6	16.6
Crawford Ranger Station	4800	3/29	9	3.4	6.2	6.1
#Deadman Gulch	5600	4/1	37	14.2	16.2	16.8*
Deadwood Airstrip	5440	4/3	30	11.4	13.8	15.6
Deadwood Summit	7000	4/3	84	31.6	48.3	47.5
#Jackson Peak	7070	4/3	67	22.8	34.8	33.1
Lake Fork	6000	4/1	44	15.3	16.8	16.9
Rock Flat Summit	5340	3/29	50	15.8	19.3	19.6
Secesh Summit	6520	4/1	77	28.7	35.2	37.2*
Squaw Meadow	5900	4/1	77	29.0	35.5	37.4
Tripod Summit	5200	3/29	39	14.7	18.2	19.7
WEISER RIVER						
Boulder Creek	5500	3/29	49	19.6	15.7	25.1
Placer Creek	6000	3/29	41	17.7	17.2	18.8
MANN CREEK						
Mann Creek	6080	3/28	60	23.2	26.8	27.7*
Robinson Creek Ridge	6220	3/28	46	19.0	21.8	21.3*
Sturgill Ridge	6680	3/28	61	25.7	29.2	32.6*
Thorson Cabin	5320	3/28	38	13.4	15.2	14.3*
MIDDLE SNAKE RIVER BASIN - SOUTHSIDE						
RAFT RIVER						
Boy Scout Camp	7750	4/6	43	16.0	16.3	15.8
Clear Creek Meadows Utah	9050	3/29	72	20.4	26.2	23.6
George Peak Utah	9000	3/29	75	21.2	31.0	--
Howell Canyon	7980	3/29	52	19.3	27.1	26.1
Indian Grove	7560	3/29	37	13.3	--	--
Logger Springs	8100	4/6	52	17.0	--	--
One Mile Summit Utah	7330	3/29	22	5.9	6.1	7.6
Sheep Hollow	6200	3/29	12	4.0	2.8	5.2
Sublett	6000	3/29	30	10.5	7.8	11.1
GOOSE CREEK						
Badger Gulch	6660	3/29	42	14.6	12.7	13.1
Bostetter Ranger Station	7500	3/29	53	19.6	18.4	20.2
Vi Pont Utah	7670	3/29	46	16.5	16.0	15.1*

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SNOW

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SALMON FALLS CREEK							
#Bear Creek	Nev.	7800	3/30	64	19.2	23.4	21.3
Cedar Creek		7000	4/8	28	9.9	7.7	10.0
Deadline		6900	3/30	62	21.8	20.1	22.3
#Fox Creek	Nev.	6800	3/30	37	9.2	8.7	9.9*
Goat Creek	Nev.	8800	3/30	52	14.1	19.6	18.6
#Hummingbird Springs	Nev.	8940	3/30	65	18.0	25.9	23.7
Magic Mountain		6700	3/30	54	19.4	19.4	19.2
#Pole Creek Rgr. Sta.	Nev.	8330	3/30	51	14.3	19.6	22.5
Shoshone Basin		5740	3/30	31	10.8	0.0	5.1*
Wilson Creek		7500	4/8	36	10.0	12.7	11.9
BRUNEAU RIVER							
Bear Creek	Nev.	7800	3/30	64	19.2	23.4	21.3
Fox Creek	Nev.	6800	3/30	37	9.2	8.7	9.9*
Hummingbird Springs	Nev.	8940	3/30	65	18.0	25.9	23.7
Pole Creek Rgr. Sta.	Nev.	8330	3/30	51	14.3	19.6	22.5
#Seventy-six Creek	Nev.	7100	3/30	40	12.3	11.2	11.4
OWYHEE RIVER							
Antelope Ridge		6150	3/31	8	3.4	4.3	6.2
Battle Creek (A)		5700	4/4	0	0.0	1.5	1.7
#Bear Creek	Nev.	7800	3/30	64	19.2	23.4	21.3
Bull Basin (A)		5600	4/4	0	0.0	0.0	0.4
#Fox Creek	Nev.	6800	3/30	37	9.2	8.7	9.9*
Hyde Pasture (A)		5800	4/4	0	0.0	1.5	3.2
Mud Flat		5720	3/31	16	6.0	3.5	4.9
Red Canyon (A)		6650	4/4	25	9.5	6.4	5.0
#Seventy-six Creek	Nev.	7100	3/30	40	12.3	11.2	11.4
Silver City		6400	3/31	38	14.4	14.3	15.4
South Mountain		6340	3/31	39	15.8	11.0	13.0
Triangle (A)		5150	Discontinued			0.0	0.1
Vaught Ranch (A)		5950	4/4	0	0.0	1.5	1.7*
War Eagle (A)		7700	4/4	75	28.5	28.8	25.1*
UPPER SNAKE RIVER BASIN							
CAMAS-BEAVER CREEKS							
Blue Ledge Mine		6700	3/29	46	15.2	18.1	17.8
Camp Creek		6800	3/29	35	9.4	8.3	12.0
Kilgore		6200	3/29	35	12.4	13.8	11.5

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HENRYS FORK RIVER							
Big Springs		6400	3/30	59	21.0	22.6	22.0
Black Canyon		7850	3/29	96	35.6	--	35.4*
Black Moose		8130	3/29	97	39.6	--	40.3*
Grassy Lake	Wyo.	7230	3/29	101	38.9	43.1	36.6
Island Park		6290	3/31	54	19.8	18.2	17.2
Latham Springs		7650	3/29	88	34.6	--	34.8
Lucky Dog		6900	3/29	69	26.2	--	26.0
Sawtell Mountain		8720	3/30	103	35.6	37.8	35.1*
Targhee Pass		7000	3/30	59	16.6	15.4	17.1*
Valley View		6740	3/30	63	19.5	15.0	18.4
White Elephant		7700	3/30	83	24.4	30.0	25.6*
TETON RIVER							
Darby Canyon	Wyo.	8250	4/5	71	23.6	25.8	24.0*
Freds Mountain	Wyo.	8150	4/5	73	23.8	28.5	20.7*
Garns Mountain		8300	4/5	127	48.4	38.2	38.8*
Indian Meadows	Wyo.	8240	4/5	100	36.8	42.3	37.4*
Jackpine Creek	Wyo.	7350	4/5	67	20.6	24.3	23.0*
McRenolds Reservoir		6800	4/5	63	22.6	23.3	20.7*
Miles Creek	Wyo.	7300	4/5	42	14.2	16.2	14.1*
Phillips Bench	Wyo.	8200	3/26	85	33.0	40.7	30.6*
Pine Creek Pass		6750	4/5	55	18.8	19.9	18.3
State Line		6650	4/5	51	18.4	15.0	15.3
Teton Pass W.S.	Wyo.	8400	3/26	78	30.4	33.2	27.7*
WILLOW CREEK							
Aspen Grove		6500	3/29	43	13.5	13.5	12.1*
Birch Creek		6800	3/29	39	13.0	7.7	11.4*
Blue Ridge		6800	3/29	45	17.3	17.0	--
Bone		6200	3/29	25	8.8	5.8	7.2*
Brockman Station		6430	3/29	36	13.6	10.5	--
Hell Creek		7100	3/29	44	16.4	14.5	--
Mud Creek		7150	3/29	45	16.6	18.5	--
Sheep Mountain		6570	3/29	39	14.0	12.4	13.9*
Tex Creek		6650	3/29	37	12.0	8.5	9.7*
BLACKFOOT RIVER							
Austin Bros. Ranch		6400	3/29	27	9.4	3.5	8.9
Slug Creek Divide		7230	3/28	49	18.0	21.0	18.0
Somsen Ranch		7000	3/29	52	17.8	18.9	15.1

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PORTNEUF RIVER						
Dempsey Creek	6100	4/1	43	15.4	14.2	13.0
Lower Pebble	5800	4/1	48	17.5	13.9	13.3*
Mink Creek	6300	3/31	56	19.8	14.8	18.3
Pebble Creek	6550	4/1	48	17.4	15.5	16.7
TOPONCE CREEK						
Cold Springs	7000	4/5	62	19.8	--	--
Putnam	7200	4/5	56	20.6	--	--
Toponce	6350	4/5	34	12.6	--	--
GREAT BASIN						
BEAR RIVER						
Emigrant Summit	7380	3/28	68	23.7	29.5	26.0
Emigration Canyon	6500	3/28	34	11.3	10.8	11.1
MONTPELIER CREEK						
Giveout	6840	3/27	41	16.2	16.7	13.0
Little Beaver	6970	3/27	44	16.8	20.8	16.3
Lower Home Canyon	7640	3/27	40	14.9	18.4	14.9*
Montpelier Creek	6570	3/27	26	11.6	10.6	8.4
Upper Home Canyon	8560	3/27	60	22.6	30.9	25.1*
Whiskey Flat	6960	3/27	29	11.2	12.5	9.4
MINK CREEK						
Christensen Ranch	5400	3/27	26	9.6	5.0	7.6
Dry Basin	7900	4/5	84	30.0	36.9	30.2
#Emigrant Summit	7380	3/28	68	23.7	29.5	26.0
Horseshoe Basin	8000	4/5	76	29.8	35.4	25.6
Liberty Spring	8600	4/5	110	40.4	50.4	10.9*
Strawberry Creek	5800	3/28	36	13.0	6.7	10.2
Strawberry Mink Divide	6800	3/27	60	23.8	27.0	21.9
CUB RIVER						
Cub River Rgr. Sta.	5400	4/5	24	9.8	3.2	6.9
#Franklin Basin	8000	4/5	73	27.8	33.1	28.2
Willow Flat	6100	4/5	47	19.4	15.2	14.8
Worm Creek	6660	4/5	51	21.1	22.1	--

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SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average 1/
MALAD RIVER						
Cliff Canyon	7200	3/27	31	11.0	9.5	--
Daniels Creek	6400	3/27	20	6.9	3.2	--
Dry Creek Flat	6480	3/27	17	7.6	1.7	5.3
Lower Elkhorn	7000	3/27	31	12.2	15.5	14.0*
Oxford Mountain	6800	3/27	32	12.5	7.8	9.5
Upper Elkhorn	7100	3/27	57	19.2	25.5	19.5*

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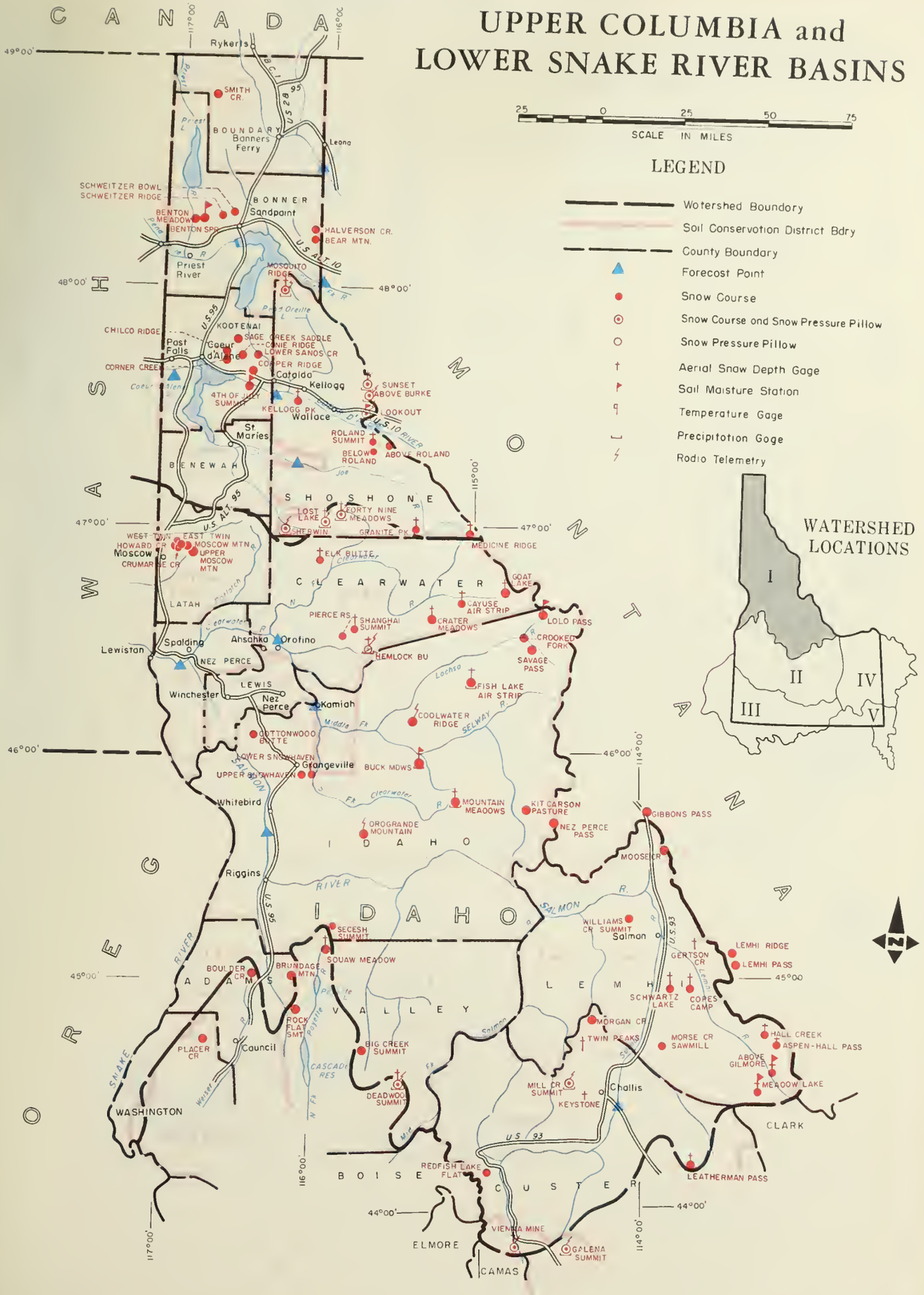
UPPER COLUMBIA and LOWER SNAKE RIVER BASINS



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
UPPER COLUMBIA BASIN						
		KOOTENAI RIVER				
16A7	I	Halverson Creek	3	57N	3E	4850
16A1	I	Smith Creek	29	64N	3W	4800
		PEND OREILLE - PRIEST RIVER				
16A8	I	Bear Mountain	9	57N	3E	5400
16A2	I	Benton Meadow	27	58N	4W	2370
16A3	I	Benton Spring	30	58N	3W	4900
16A6	I	Schweitzer Bowl	20	58N	2W	4500
16A5	I	Schweitzer Ridge	19	58N	2W	6200
		HAYDEN CREEK				
16B8	I	Chilco Ridge	15	52N	2W	3650
16B7	I	Conie Ridge	22	52N	2W	3900
16B9	I	Corner Creek	22	52N	2W	3150
16B6	I	Sage Creek Saddle	10	52N	2W	4100
		SPOKANE RIVER				
15B8SP	I	Above Burke	11	48N	5E	4100
15B7	I	Above Roland	35	47N	6E	4350
15B6	I	Below Roland	3	46N	6E	3840
16B2	I	Copper Ridge	6	50N	1W	4800
16B3M	I	Fourth of July Summit	6	49N	1W	3200
15B13A	I	Granite Peak	3	42N	8E	6000
16B5A	I	Kellogg Peak	19	48N	3E	5560
15B2MSP	I	Lookout	4	47N	6E	5120
16B1	I	Lower Sands Creek	32	51N	1W	3400
15B4ASP	I	Medicine Ridge	24	43N	10E	6160
16A4ASP	I	Mosquito Ridge	5	54N	2E	5110
15B5A	I	Roland Summit	26	47N	6E	5200
16C1SP	I	Sherwin	28	42N	1E	3200
15B9ASP	I	Sunset	33	49N	5E	5600
LOWER SNAKE BASIN						
		PALOUSE RIVER				
16C6	I	Crumarine Creek	24	40N	5W	3340
16C3	I	East Twin	13	40N	5W	4050
16C5	1	Howard Creek	14	40N	5W	3500
16C2	I	Moscow Mountain	18	40N	4W	4400
16C4P	I	West Twin	14	40N	5W	4250

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
		CLEARWATER RIVER				
15D5MAP	I	Buck Meadows	26	31N	8E	5650
15C3A	I	Cayuse Airstrip	4	38N	11E	3700
15C7S	I	Coolwater Mountain	32	33N	8E	6200
16C16	I	Cottonwood Butte	33	32N	1W	5140
15C9A	I	Crater Meadows	2	37N	9E	6100
14C10	I	Crooked Fork	27	37N	14E	3800
16C15A	I	Elk Butte	6	40N	3E	5550
15C2AP	I	Fish Lake Airstrip	35	35N	11E	5000
15B3ASP	1	Forty-nine Meadows	6	43N	5E	4880
14C9A	1	Goat Lake	4	38N	13E	6600
16C6AP	I	Hemlock Butte	7	36N	7E	5500
15C8S	M	Hoodoo Basin	17	14N	27W	6000
15C1	M	Hoodoo Creek	16	14N	27W	5900
14D3	I	Kit Carson Pasture	4	27N	16E	5020
14C5M	I	Lolo Pass	16	38N	15E	5240
15B14AS	I	Lost Lake	16	43N	4E	6000
16D7	I	Lower Snowhaven	9	29N	3E	5300
15D6AP	I	Mountain Meadows	9	27N	10E	6300
14D1	M	Nez Perce Pass	25	1S	24W	6575
15D4S	1	Orogrande Mountain	24	27N	6E	7800
15C5	I	Pierce Ranger Station	2	36N	5E	3170
14C6	I	Powell Ranger Station	33	37N	14E	4230
14C4	I	Savage Pass	18	36N	15E	6170
15C4A	I	Shanghai Summit	7	37N	6E	4600
16D4	I	Upper Snowhaven	8 &9	29N	3E	5600
		SALMON RIVER				
13E19MA	1	Above Gilmore	13	13N	26E	8250
13E21A	I	Aspen-Hall Pass	6	16N	28E	8110
15E2	I	Big Creek Summit	24	15N	5E	6600
13E8A	1	Borah	21	10N	23E	8250
16D6	I	Brundage Mountain	6	19N	3E	7560
13E17A	1	Copes Camp	36	18N	22E	7500
13E25A	I	Double Springs Pass	3	10N	22E	8400
13D2	M	Gibbons Pass	4	2S	19W	7100
13E20A	I	Hall Creek	1	16N	27E	7560
13E24A	1	Leatherman Pass	20	9N	23E	9800
13E1	M	Lemhi Pass	9	10S	15W	7480
13E23	M	Lemhi Ridge	4	10S	15W	8100
13E18MA	1	Meadow Lake	25	13N	26E	9200
14E1MAP	1	Mill Creek Summit	8	13N	17E	8800
13D16	I	Moose Creek	14	27N	21E	6200
14E4	I	Morgan Creek	32	18N	19E	7580
13E26	I	Morse Creek Sawmill	8	15N	23E	7120
14E7	I	Redfish Lake Flat	35	10N	13E	6550
13E16A	I	Schwartz Lake	34	18N	22E	8500
14E3A	I	Twin Peaks	28	15N	17E	9170
14F4AP	I	Vienna Mine	1	5N	13E	8950
14D4	I	Williams Creek Summit	34	21N	20E	7800

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY
10J7p	STORAGE PRECIPITATION GAGE ONLY
10J7R	RADIOACTIVE GAGE

MIDDLE SNAKE RIVER BASIN
NORTHSIDE

LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and Snow Pressure Pillow
- Snow Pressure Pillow
- Aerial Snow Depth Gage
- Soil Moisture Station
- Temperature Gage
- Precipitation Gage
- Radio Telemetry

INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN NORTHSIDE

LITTLE LOST RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
13E5M	I	Fairview Guard Station	27	12N	26E	6750
13E3	I	Lost-Garfield	3	11N	26E	6600
13E6	I	Moonshine	31	13N	26E	7500
13E4	I	Sawmill Canyon	17	12N	26E	6900
13E7MP	I	Wet Creek Summit	15	8N	25E	7760

BIG LOST RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
13F3	I	Bear Canyon	22	5N	21E	7920
13F2A	I	Copper Basin	25	6N	21E	7650
13F3A	I	Fishpole Lake	28	4N	22E	9350
13F11	I	Iron Bog	23	4N	22E	7650
13F12	I	Leadbelt	34	4N	23E	6800
14F3A	I	Lost Wood Divide	25	6N	18E	7900
14F2A	I	Stickney Mill	9	6N	19E	7450
13F1	I	White Knob	25	7N	23E	7700

BIG WOOD RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
15F9	I	Camas Creeks Divide	11	2S	9E	5720
14F8	I	Dollarhide Summit	9	3N	15E	8400
14F1M	I	Galena	2	6N	15E	7440
14F12MPS	I	Galena Summit	5	6N	15E	8780
14F5	I	Graham Ranch	10	5N	17E	6280
14F7	I	Mascot Mine	8	4N	20E	7760
14F9	I	Mount Baldy	26	4N	17E	9000
14F11	I	Soldier Ranger Station	19	2N	14E	6100

LITTLE WOOD RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
13F4	I	Garfield Ranger Station	11	3N	21E	6560
13F5	I	Muldoon	25	3N	21E	6300
13F9R	I	Swede Peak	4	3N	21E	7640

FISH CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
13F10	I	Iron Mine Creek	32	3N	23E	6370
13F6	I	Telfer Ranch	12	2N	22E	6000

BOISE RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
15F4APS	I	Atlanta Summit	23	5N	10E	7500
15F2	I	Bad Bear	35	7N	6E	5500
16F4	I	Bogus Basin Road	32	5N	3E	5520
14F10	I	Couch Summit	9	2N	14E	6850
16F1	I	Deadman Gulch	29	7N	4E	5600
15F14PSR	I	Graham Guard Station	9	7N	10E	5690
15E9AP	I	Jackson Peak	7	8N	9E	7070
15F1MPSR	I	Moores Creek Summit	19	7N	7E	6100
15F6P	I	Prairie	13	2N	7E	4800
15F3A	I	Road Creek	5	5N	8E	5550
15FAPSR	I	Trinity Mountain	6	3N	9E	7780

CANYON CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
15F7	I	Bennett Mountain	7	2S	9E	6650
15F12	I	Little Camas Flat	21	1S	9E	4950

PAYETTE RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16F2PS	I	Bogus Basin	16	5N	3E	6340
15E8PSR	I	Cozy Cove	17	11N	7E	5400
15E3	I	Crawford Ranger Station	21	14N	4E	4800
15E10	I	Deadwood Airstrip	8	11N	7E	5440
15E4AS	I	Deadwood Summit	23	14N	7E	6800
16E4	I	High Valley Summit	9	10N	2E	5170
15E1	I	Lake Fork	3	18N	4E	6000
16E1	I	Rock Flat Summit	1	18N	2E	5340
15D1	I	Secesh Summit	4	21N	4E	6520
15D2	I	Squaw Meadow	17	21N	4E	5900
16E3	I	Tripod Summit	17	11N	3E	5200

WEISER RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16D1P	I	Boulder Creek	16	20N	1W	5500
16E2	I	Placer Creek	15 & 16	17N	3W	6000

MANN CREEK

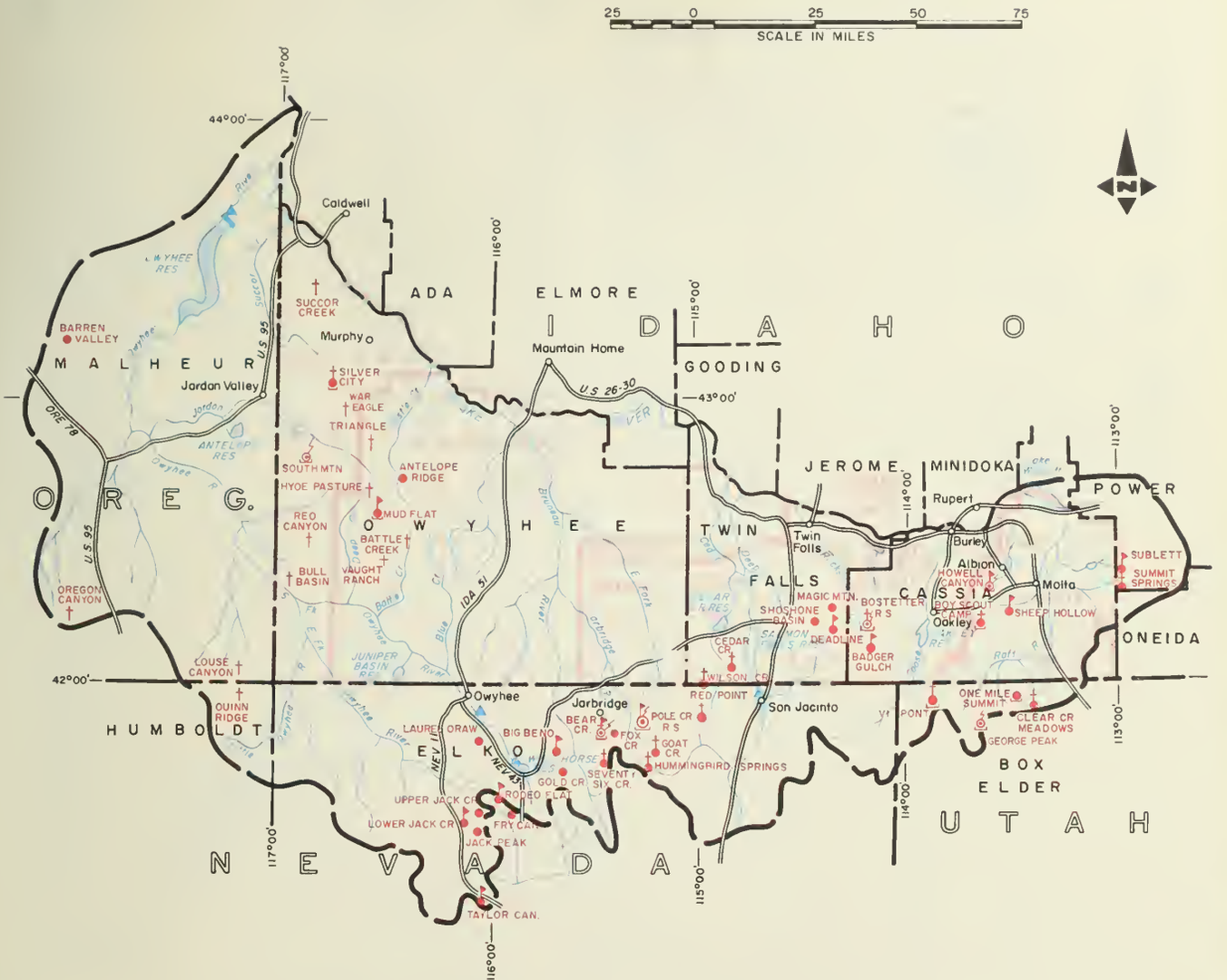
NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16E9	I	Mann Creek	20	15N	5W	6080
16E8	I	Sturgill Ridge	28	15N	5W	6680
17E1	I	Robinson Creek Ridge	2	14N	6W	6220
17E2	I	Thorson Cabin	12	14N	6W	5320

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

MIDDLE SNAKE RIVER BASIN
SOUTHSIDE



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and Snow Pressure Pillow
- Snow Pressure Pillow
- Aerial Snow Depth Gage
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INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN SOUTHSIDE

RAFT RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
13G2AP	I	Boy Scout Camp	8	14S	24E	7760
13H2A	U	Clear Creek Meadows	26	14N	14W	9050
13H4SP	U	George Peak	4	13N	14W	9000
13G1MP	I	Howell Canyon	2	13S	24E	8000
13H1P	U	One Mile Summit	19	14N	14W	7330
13G5M	I	Sheep Hollow	4	14S	24E	6200
12G8M	I	Sublett	8	12S	30E	6000
12G9A	I	Summit Springs	15	13S	30E	6400

GOOSE - TRAPPER CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
14G3M	I	Badger Gulch	24	15S	19E	6660
14G1AP	I	Bostetter Ranger Station	35	14S	19E	7500
13H3AP	U	Vi Pont	17	14N	17W	7670

SALMON FALLS CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
14G5A	I	Cedar Creek	25	15S	13E	7000
14G4M	I	Deadline	25	14S	18E	6900
15H13A	N	Goat Creek	31	46N	60E	8800
14G2	I	Magic Mountain	14	14S	18E	6700
15H18A	N	Red Point	15	47N	61E	7940
14G6	I	Shoshone Basin	24	14S	17E	5740
15G2A	I	Wilson Creek	24	16S	12E	7500

BRUNEAU RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
15H1MAP	N	Bear Creek	31	46N	58E	7800
15H2	N	Fox Creek	33	46N	58E	6800
15H15A	N	Hummingbird Springs	6	45N	60E	8950
15H14MP	N	Pole Creek Ranger Station	13	46N	59E	8330

OWYHEE RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
16G6	I	Antelope Ridge	20	8S	1E	5900
18F5	O	Barren Valley	26	17S	38E	4200
16G9a	I	Battle Creek	10	11S	1E	5700
15H4M	N	Big Bend	30	45N	56E	6700
16G10a	I	Bull Basin	19	12S	5W	5600
15H7	N	Fry Canyon	31	43N	54E	6700
15H5	N	Gold Creek	31	45N	56E	6600
16G5a	I	Hyde Pasture	SE¼ 31	8S	2W	5800
16H4	N	Jacks Peak	28	42N	53E	8420
16H5	N	Laurel Draw	20	45N	53E	6700
17G4a	O	Louse Canyon	27	40S	44E	6440
16H1M	N	Lower Jack Creek	13	42N	53E	6800
16G7MP	I	Mud Flat	34	9S	2W	5500
17G5a	O	Oregon Canyon	9	40S	40E	6950
17H6a	N	Quinn Ridge	9	47N	41E	6300
16G11ap	I	Red Canyon	32	11S	4W	6650
15H6M	N	Rodeo Flat	36	43N	53E	6800
16F3AP	1	Silver City	6	5S	3W	6400
16G1PSR	I	South Mountain	35	7S	5W	6340
16F6a	I	Succor Creek	25	3S	5W	6100
15H9M	N	Taylor Canyon	35	39N	53E	6200
16G4a	I	Triangle	N½ 35	7S	3W	5150
16H2	N	Upper Jack Creek	9	42N	53E	7250
16G12a	I	Vaught Ranch	10	11S	1W	5950
16G13a	I	War Eagle	20	5S	3W	7700

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY
10J7p	STORAGE PRECIPITATION GAGE ONLY
10J7R	RADIOACTIVE GAGE

UPPER SNAKE RIVER BASIN

LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
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- Snow Pressure Pillow
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INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
UPPER SNAKE RIVER BASIN						
SNAKE RIVER - WYOMING						
10G4	Wy	Afton Ranger Station	30	32N	118W	6200
10F1	Wy	Arizona	3	46N	115W	6850
10E8	Wy	Aster Creek	44° 17'		110° 38'	7700
10F2	Wy	Base Camp	20	46N	113W	6900
10F7	Wy	Blackrock	4	44N	111W	8600
10G2A	Wy	Blind Bull	6	34N	115W	8750
10F14	Wy	Bryan Flat	9	38N	115W	6250
10G7	Wy	CCC Camp	9	29N	118W	7500
10G5A	Wy	Cottonwood Lake	25	31N	118W	7500
10E10	Wy	Coulter Creek	44° 09'		110° 33'	7600
10F17MP	Wy	East Rim Divide #2	32	37N	111W	7950
10F6	Wy	Four Mile Meadows	35	45N	112W	7770
10E13	Wy	Glade Creek	12	48N	116W	7200
10F18	Wy	Greys Boundary	33	37N	118W	5800
10F19	Wy	Gros Ventre Summit	36	40N	111W	8750
10G3	Wy	Grover Park Divide	27	33N	118W	7500
10E14	Wy	Huckleberry Divide	32	48N	115W	7300
10E9PS	Wy	Lewis Lake Divide	44° 13'		110° 40'	7900
10F4MP	Wy	Moran	8 & 17	45N	114W	6800
10F3	Wy	Moran Bay	14	45N	116W	6800
10G6	Wy	Poison Meadows	29	30N	116W	8500
10G8P	Wy	Salt River Summit	32	29N	118W	7900
10E12MP	Wy	Snake River Station	9	48N	115W	6780
10F20M	Wy	Snow King Mountain #3	4	40N	117W	7600
10E7	Wy	Thumb Divide	44° 22'		110° 35'	7900
10F9MP	Wy	Togwotee Pass	29	44N	110W	9600
10F5	Wy	Turpin Meadows	14	45N	112W	6930
10G1A	Wy	Young's Ranch	26	34N	116W	6530
HENRYS FORK RIVER						
11E9	I	Big Springs	4	13N	44E	6400
11E18	I	Black Canyon	11	13N	45E	7850
11E19	I	Black Moose	33	14N	45E	8125
10E15	Wy	Grassy Lake	6	48N	117W	7230
11E10M	I	Island Park	28	13N	43E	6290
11E16	I	Latham Springs	9	13N	45E	7650
11E14	I	Lucky Dog	2	13N	45E	6900
11E32	I	Sawtell Mountain	7	14N	43E	8720
11E34	I	Targhee Pass	32	16N	44E	7000
11E3M	I	Valley View	7	15N	44E	6740
11E36	I	White Elephant	17	14N	43E	7700
TETON RIVER						
10F21	Wy	Darby Canyon	28	43N	118W	8250
10F22	Wy	Freds Mountain	12	44N	118W	8150
11F13	I	Garns Mountain	20	4N	44E	8300
10F25	Wy	Indian Meadows	31	46N	117W	8240
10F26	Wy	Jackpine Creek	15	46N	118W	7350
11F12	I	McRenolds Reservoir	5	7N	46E	6800
10F27	Wy	Miles Creek	13	44N	118W	7300
11F2M	I	Pine Creek Pass	24	3N	44E	6750
11F1M	I	State Line	32	3N	46E	6650
10F13	Wy	Teton Pass W. S.	24	41N	118W	8400
CAMAS - BEAVER CREEK						
11E11	I	Blue Ledge Mine	27	13N	38E	6700
12E3	I	Camp Creek	21	13N	36E	6800
11E12	I	Kilgore	6	12N	39E	6200
MEDICINE LODGE CREEK						
12E4	I	Irving Creek	20	13N	33E	7035
12E5	I	Webber Creek	23	12N	32E	6700
WILLOW CREEK						
11F10	I	Aspen Grove	36	2N	41E	6500
11F3	I	Birch Creek	36	2N	41E	6800
11F17I	I	Blue Ridge	35	2S	39E	6800
11F8	I	Bone	29	1S	40E	6250
11F16	I	Brockman Station	19	2S	43E	6430
11F15	I	Hell Creek	27	1S	42E	7100
11F14	I	Mud Creek	3	2S	39E	7150
11F11R	I	Sheep Mountain	30	2S	41E	6570
11F5R	I	Tex Creek	36	1N	42E	6650
SAND CREEK						
11F6	I	Henry Creek	7	1S	39E	5650
BLACKFOOT RIVER						
11G3	I	Austin Brothers Ranch	28	7S	43E	6400
11G5PS	I	Slug Creek Divide	15	10S	44E	7225
11G1MS	I	Somsen Ranch	25	5S	43E	7000
11G29	I	Ten Mile Pass	8	8S	41E	6250
PORTNEUF RIVER						
12G5	I	Dempsey Creek	18	10S	38E	6100
12G6M	I	Lower Pebble	7	8S	38E	5800
12G1	I	Mink Creek	33	7S	34E	6300
12G2M	I	Pebble Creek	34	7S	37E	6550

LEGEND

Numbering System (exomple)

10J7	SNOW COURSE ONLY.
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10J7m	SOIL MOISTURE STATION ONLY.
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10J7R	RADIOACTIVE GAGE

GREAT BASIN

LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
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INDEX to SNOW COURSES

GREAT BASIN

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
		BEAR RIVER				
10G11	Wy	Big Park	7	27N	117W	8700
11H13MP	U	Dry Bread Pond	19	8N	4E	8230
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6500
11H7P	U	Garden City Summit	35	14N	4E	7600
10J6P	U	Burt's-Miller Ranch	19	3N	10E	7900
10J7P	U	Hayden Fork	1	1S	9E	9300
10G12	Wy	Kelly Ranger Station	13	26N	118W	8200
11H12P	U	Monte Cristo R. S.	3	8N	4E	8960
10G10	Wy	Piney LaBarge	19	29N	114W	8820
10J17P	U	Stillwater Camp	32	2N	10E	8550
10J28P	U	Whitney G. S.	4	1N	9E	9300
		MONTPELIER CREEK				
11G16	I	Giveout	2	12S	45E	6840
11G20	I	Little Beaver	26	11S	45E	6970
11G27	I	Lower Home Canyon	17	12S	45E	7500
11G18	I	Montpelier Creek	22	12S	45E	6570
11G26	I	Upper Home Canyon	31	11S	45E	8500
11G21	I	Whiskey Flat	26	11S	45E	6985
		MINK CREEK				
11G11	I	Christensen Ranch	27	13S	41E	5600
11G14A	I	Dry Basin	30	13S	42E	7900
11G6MP	I	Emigrant Summit	21	12S	42E	7350
11G15A	I	Horseshoe Basin	31	13S	42E	8000
11G13A	I	Liberty Spring	7	13S	42E	8600
11G9M	I	Strawberry Creek	9	13S	41E	5800
11G10	I	Strawberry Mink Divide	14	13S	41E	6800
		CUB RIVER				
11G12	I	Cub River Ranger Station	5	15S	41E	5400
11G8S	I	Franklin Basin	1	16S	41E	8000
11G4P	I	Willow Flat	2	15S	41E	6100
11G28	I	Worm Creek	28	14S	41E	6660
		MALAD RIVER				
12G13	I	Cliff Canyon	13	12S	35E	7200
12G12	I	Daniels Creek	11	12S	35E	6400
12G4	I	Dry Creek Flat	28	13S	37E	6480
12G11	I	Lower Elkhorn	30	12S	36E	7000
12G3	I	Oxford Mountain	27	13S	37E	6800
12G10	I	Upper Elkhorn	25	12S	35E	7100

LEGEND

Numbering System (example)

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10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

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IMPORTANT NOTICE

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U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
MAY 1, 1979

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: VIEW OF A SNOTEL DATA SITE IN THE SNOWY RANGE IN WYOMING. TALL CYLINDRICAL DEVICE IS A PRECIPITATION GAGE. SNOW PILLOWS ON THE GROUND NOT VISIBLE DUE TO SNOW COVER. SHELTER HOUSE, ANTENNA TOWER, ANTENNA, AND TEMPERATURE UNIT ARE VISIBLE BEHIND THE PRECIPITATION GAGE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R.M. DAVIS

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

C. STEPHEN ALLRED

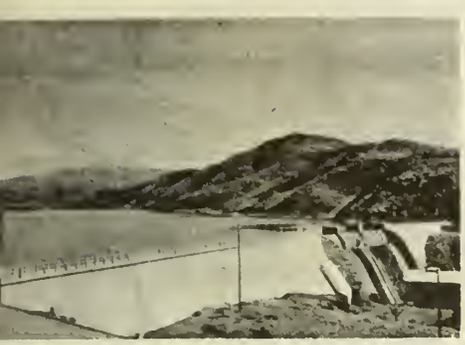
DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

JACK A. WILSON, Snow Survey Supervisor
GERALD A. BEARD, Asst. Snow Survey Supervisor
KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY FOR MAY 1, 1979

The outlook for water supplies as of May 1 changed very little from the predictions made on April 1, 1979. Streamflow forecasts for the May through September season indicate below normal flows on all drainages except the Owyhee in Southwestern Idaho and the Cub River in the Southeastern corner of the State. Forecasts for stations in Idaho vary from a low of 44 percent of average for Inflow to Magic Reservoir on the Big Wood River to 104 percent of normal for the Cub River near Preston.

Precipitation and temperatures both averaged slightly below normal for Idaho during April. Precipitation ranged from a low of 38 percent of average in the Twin Falls area to a high of 159 percent at Salmon. Temperatures around Idaho averaged 1 to 2 degrees below normal.

Carryover storage is fair with sixteen irrigation reservoirs in the Snake River Basin showing a combined storage volume of 108 percent of normal. Major reservoirs are expected to fill.

Irrigation supplies may be short on small streams with no storage facilities but should be adequate on other systems. A wet spring with associated reduction in irrigation demands could alleviate the expected shortages, however, a dry spring would complicate the situation and result in severe shortages. Good water management practices are of the essence this year to stretch supplies available.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	6350	78	May-Sep	7613	8116
		5435	78	May-Jul	6383	6966
		4200	78	May-Jun	4794	5402
PEND OREILLE RIVER						
Clark Fork River						
Whitehorse Rapids	(at)	11100	91	May-Sep	--	12207
		9960	91	May-Jul	--	10945
		8240	91	May-Jun	--	9059
Priest River						
Priest River 1/*	(nr)	462	64	May-Sep	--	723
		428	64	May-Jul	--	669
SPOKANE RIVER						
Post Falls 2/	(at)	1550	76	May-Sep	--	2052
St. Joe River						
Calder	(at)	765	73	May-Sep	--	1053
		730	74	May-Jul	--	984
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 3/	(at)	800	86	Apr-Sep	--	903
Palisades Inflow 3/		3450	89	Apr-Sep	--	3863
Heise 4/	(nr)	3325	87	May-Sep	--	3824
Blackfoot 5/	(nr)	3690	89	May-Jul	--	4143
Weiser*	(at)	4170	77	May-Sep	--	5408
Henrys Fork						
Ashton 6/	(nr)	600	95	May-Sep	--	634
Rexburg 7/	(nr)	1345	97	May-Sep	--	1387
Portneuf River						
Topaz	(at)	65	92	May-Sep	--	71
Oakley Reservoir Inflow		16	67	May-Sep	--	24

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake. 2/ Observed flow corrected for storage in Coeur d'Alene Lake 3/ Corrected for storage in Jackson Lake. 4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.

*National Weather Service forecast.

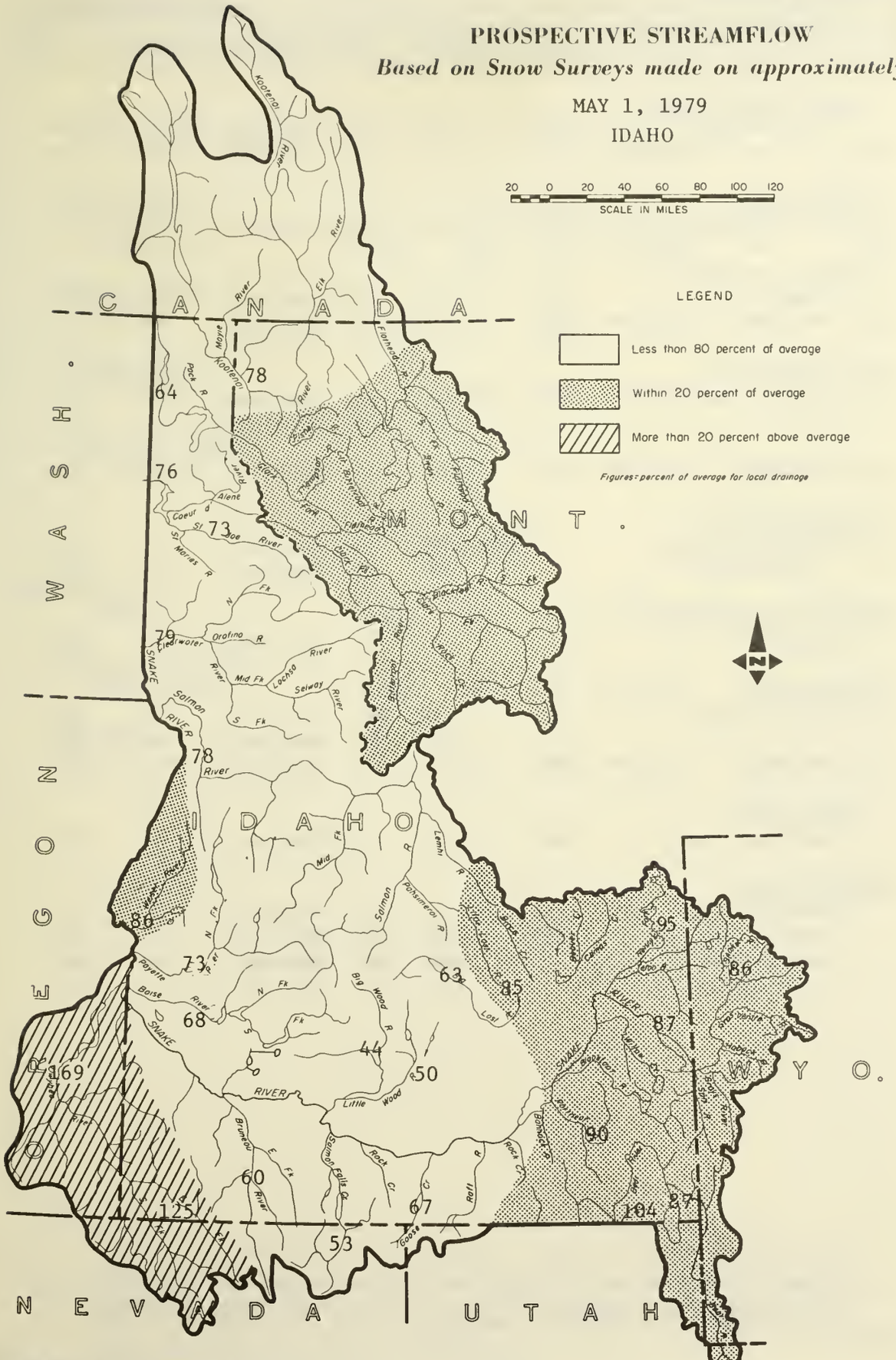
+1963-77 period.

PROSPECTIVE STREAMFLOW

Based on Snow Surveys made on approximately

MAY 1, 1979

IDAHO



FORECASTED WATER SUPPLY AS PERCENT OF THE 1963-77 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST[c] Thousand Acre Feet	THIS YEAR FORECAST[c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average †
Salmon Falls Creek						
San Jacinto	(nr)	33	52	May-Sep	--	63
		31	54	May-Jul	--	58
Bruneau River						
Hot Springs	(nr)	110	60	May-Sep	--	183
Little Lost River						
Howe	(nr)	33	85	May-Sep	--	39
Wet Creek	(bl)	31	84	May-Sep	--	37
Big Lost River						
Howell Ranch	(at)	140	66	May-Sep	--	214
		95	66	May-Jun	--	144
Mackay 1/	(nr)	120	63	May-Sep	--	191
Big Wood River						
Magic Reservoir		100	44	May-Sep	--	229
Inflow 2/		95	45	May-Jul	--	213
Little Wood River						
Carey	(nr)	40	50	May-Sep	--	80
Boise River						
Twin Springs	(nr)	415	68	May-Sep	--	612
		380	68	May-Jul	--	559
Boise 3/	(nr)	900	68	May-Sep	--	1326
South Fork						
Anderson Dam 4/	(at)	345	68	May-Sep	--	511
Owyhee River						
Gold Cr., Nev. 5/	(nr)	15	125	May-Jul	--	12
Owyhee, Nev. 5/	(nr)	60	118	May-Jul	--	51
Lake Owyhee		304	169	May-Sep	--	180
net inflow 6/		277	176	May-Jul	--	157

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir 2/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 3/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 4/ Corrected for storage in Anderson Ranch Reservoir. 5/ Corrected for storage in Wild Horse Reservoir. 6/ From U.S.B.R. records of inflow.

*National Weather Service forecast.

+1963-77 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST(c) Thousand Acre Feet	THIS YEAR FORECAST(c) Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
Payette River						
Horseshoe Bend 1/	(nr)	1150	73	May-Sep	--	1567
North Fork						
Cascade 3/	(at)	350	73	May-Sep	--	480
Banks 3/	(nr)	435	73	May-Sep	--	599
Weiser River						
Weiser	(nr)	260	86	May-Sep	--	304
Salmon River						
Whitebird*	(at)	5130	78	May-Sep	--	6581
Clearwater River						
Spalding*	(at)	5610	79	May-Sep	--	7081
GREAT BASIN						
BEAR RIVER						
Harer	(at)	235	87	May-Sep	--	271
Montpelier Creek						
Montpelier	(nr)	10.5	88	May-Sep	--	12
Cub River						
Preston	(nr)	51	104	May-Sep	--	49

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4. Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth. +1963-77 period.

*National Weather Service forecast.

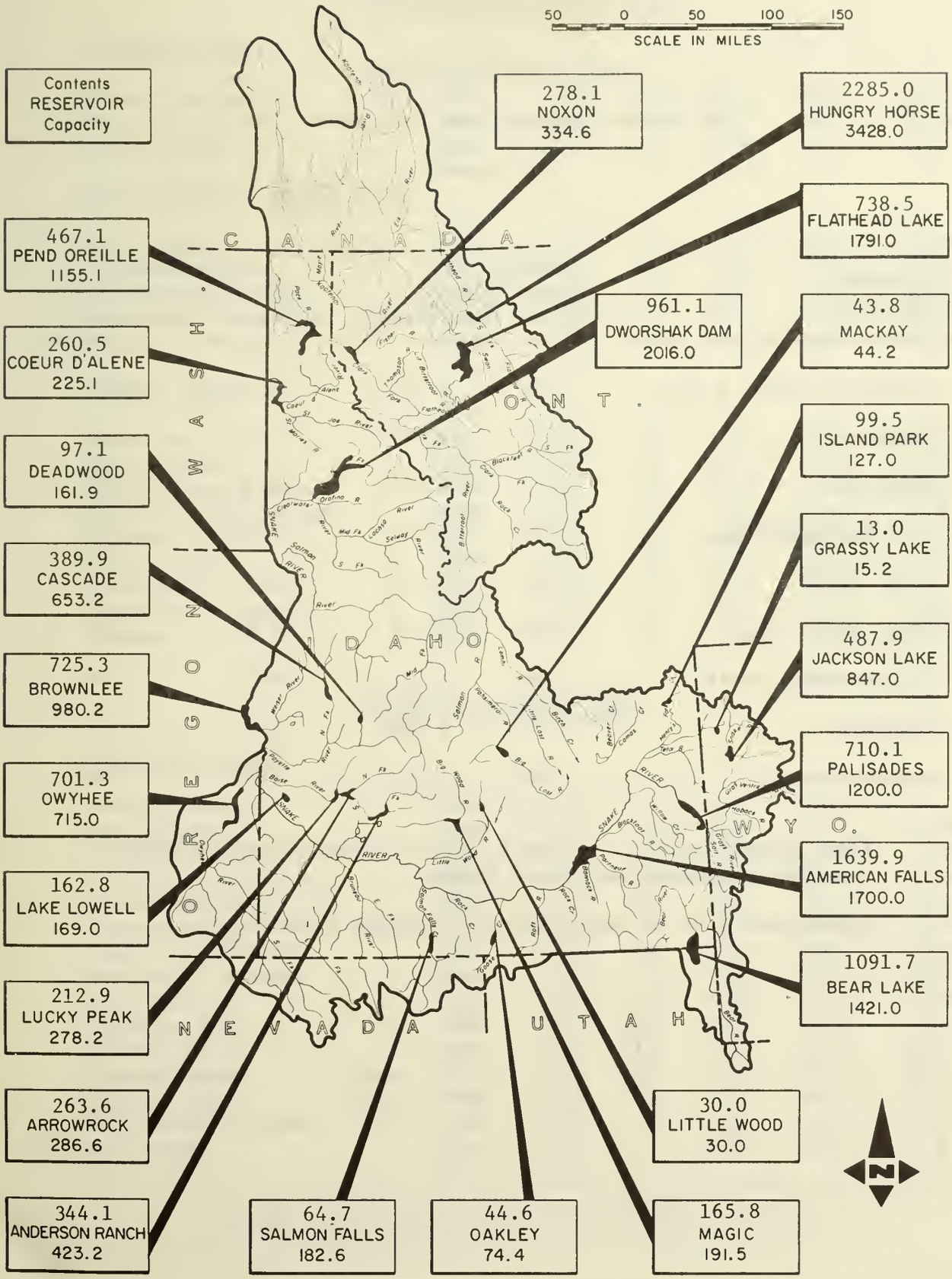
RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2285.0	1947.0	2006.0*
Flathead	1791.0	738.5	835.3	977.9*
Pend Oreille	1155.1	467.1	442.2	483.0
Noxon	334.6	278.1	234.3	138.4*
Spokane				
Coeur d'Alene	225.1	260.5	202.4	238.4
SNAKE BASIN				
Snake				
Jackson Lake	847.0	487.9	330.2	572.3
Palisades	1200.0	710.1	315.6	666.3
American Falls	1700.0	1639.9	1584.1	1488.4
Island Park	127.0	99.5	108.2	126.3
Grassy Lake	15.2	13.0	9.9	11.1
Brownlee	980.2	725.3	644.2	406.4
Goose-Trapper Creeks				
Oakley	74.4	46.6	44.4	37.8
Salmon Falls Creek				
Salmon Falls	182.6	64.7	69.5	81.0
Big Lost				
Mackay	44.2	43.8	34.1	34.0
Big Wood				
Magic	191.5	165.8	179.2	172.7
Listtle Wood				
Little Wood	30.0	30.0	28.1	24.5
Fish Creek				
Carey Valley	14.0	9.5	12.4	--
Boise				
Anderson Ranch	423.2	344.1	232.7	289.3
Arrowrock	286.6	263.6	180.3	213.2
Lucky Peak	278.2	212.9	138.7	134.1
Lake Lowell (Deer Flat)	169.0	162.8	173.3	151.2
Owyhee				
Owyhee	715.0	701.3	718.6	591.2
Payette				
Cascade	653.2	389.9	422.8	330.9
Deadwood	161.9	97.1	80.5	98.2
Weiser				
Mann Creek	11.1	11.3	11.4	--
Clearwater				
Dworshak	2016.0	961.1	998.3	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1091.7	847.8	1095.0

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MAY 1, 1979



VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

DRAINAGE DIVISIONS	Winter April 1979		Fall - Winter Nov. 78 - April 79	
	Observed	Departure 2/	Observed	Departure 2/
Kootenai, Canada & U.S.	1.66	+ .04	11.38	- 3.63
Flathead	2.37	+ .73	11.97	- .40
Clark Fork	1.27	- .06	8.34	- .99
Pend Oreille-Spokane	1.99	+ .17	15.18	- 4.19
Upper Snake	.87	- .92	11.15	- .75
Snake River Plain	.50	- .49	4.87	- 1.20
Salmon-Payette-Boise	1.54	+ .11	10.23	- 2.99
Clearwater	3.18	+ .06	17.77	- 3.23
Owyhee-Malheur	.82	+ .07	6.58	+ .16

1/Preliminary analysis and data by the National Weather Service and Meterological Service of Canada.

2/Departure from 15-year (1963-77) drainage division.

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average b/
UPPER COLUMBIA RIVER BASIN						
KOOTENAI RIVER						
#Bear Mountain	5400	4/24	112	45.9	49.3	67.7*
Halverson Creek	4850	4/24	85	36.5	40.2	43.5*
Smith Creek	4800	5/1	66	31.4	37.2	47.4
PEND OREILLE - PRIEST RIVER						
Bear Mountain	5400	4/24	112	45.9	49.3	67.7*
Benton Meadow	2370	4/26	0	0.0	0.0	0.0*
Benton Spring	4900	4/26	39	16.7	10.7	16.7
Schweitzer Bowl	4500	4/27	46	21.3	17.8	26.8*
Schweitzer Ridge	6200	4/27	90	37.1	51.2	47.5*
SPOKANE RIVER						
Above Burke	4100	4/30	39	18.5	13.4	19.7*
Copper Ridge	4800	4/27	50	23.5	9.2	25.7
#Forty-nine Meadows	4840	4/27	57	22.6	12.8	26.9
Fourth of July Summit	3200	4/27	0	0.0	0.0	0.8
Granite Peak	6000	4/27	105	38.1	33.0	47.6*
Lookout	5120	4/30	59	28.2	29.6	35.4
#Lost Lake	6080	4/27	127	47.4	44.8	62.5
Lower Sands Creek	3400	4/27	47	18.3	9.7	18.3
Sherwin	3200	4/30	16	7.0	0.0	7.2*
LOWER SNAKE RIVER BASIN						
CLEARWATER RIVER						
Breezy Saddle	5000	4/27	59	25.1	15.0	--
Buck Meadows	5650	4/27	63	24.0	18.6	29.9*
Cayuse Airstrip	3500	4/27	0	0.0	0.0	1.0*
Coolwater Mountain	6200	4/27	92	34.7	30.8	35.5*
Crater Meadows	6100	4/27	105	40.6	39.0	47.8
Crooked Fork	3600	4/30	0	0.0	0.0	3.5*
Fish Lake Airstrip	5650	4/27	88	37.4	29.4	41.4*
Forty-nine Meadows	4840	4/27	57	22.6	12.8	26.9
Goat Lake	6500	4/27	118	45.0	42.0	51.9*
#Granite Peak	6000	4/27	105	38.1	33.0	47.6*
Hemlock Butte	5500	4/27	114	44.9	35.7	52.4
#Hoodoo Basin Mont.	6000	4/30	107	49.6	52.4	55.6*
#Hoodoo Creek Mont.	5900	4/30	108	49.3	45.4	52.0
Kit Carson Pasture	4950	4/27	6	2.6	--	--
Lolo Pass	5240	4/30	67	30.8	25.4	31.4

*(b)1963-77, 15 year period. #Not located directly on this drainage. * Estimated 1963-77 15 year average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME		Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average 1/
Lost Lake		6080	4/27	127	47.4	44.8	62.5
Mountain Meadows		6300	4/27	56	19.9	16.4	26.3*
#Nez Perce Pass	Mont.	6575	4/27	42	18.5	15.0	17.4
Pierce Ranger Station		3170	4/30	0	0.0	0.0	1.9
Savage Pass		6170	4/30	69	27.8	26.8	29.3*
Shanghai Summit		4600	4/27	53	23.0	9.5	23.1
SALMON RIVER							
Banner Summit		7040	4/30	54	21.2	--	--
Big Creek Summit		6600	4/28	73	30.9	42.8	37.8
#Boulder Creek		5500	4/30	27	11.6	12.2	16.8
Brundage Mountain		7560	4/27	97	40.0	55.0	52.4*
#Deadwood Summit		6750	4/30	70	31.0	48.9	48.2*
#Galena Summit		8780	4/27	51	18.0	30.7	26.9
#Gibbons Pass	Mont.	7100	4/30	57	24.4	25.4	25.3
#Lemhi Pass	Mont.	7480	4/25	38	11.3	8.8	9.2
#Lemhi Ridge	Mont.	8100	4/25	50	15.1	11.6	10.6*
Mill Creek Summit		8800	5/1	46	16.5	23.5	25.9
Moose Creek		6200	4/30	33	12.1	13.0	16.6*
Morgan Creek		7580	5/1	26	9.2	10.0	13.9
#Rock Flat Summit		5340	4/27	34	13.8	18.7	17.9
#Secesh Summit		6520	4/28	59	27.5	37.4	36.9*
#Squaw Meadow		5900	4/28	57	27.2	35.0	36.1*
Vienna Mine		8950	4/26	76	30.1	45.0	39.9*
LEMHI RIVER							
Above Gilmore		8250	5/2	31	9.3	8.1	11.0*
Meadow Lake		9200	5/2	48	16.9	17.7	24.5*
MIDDLE SNAKE RIVER BASIN - NORTHSIDE							
BIG LOST RIVER							
Bear Canyon		7920	4/26	37	13.5	17.8	18.9*
Copper Basin		7650	4/26	14	5.2	10.0	8.5*
Fishpole Lake		9350	4/26	49	16.6	29.0	--
Lost-Wood Divide		7900	4/26	42	15.6	24.8	24.8*
Stickney Mill		7450	4/26	16	5.6	3.8	6.5*
White Knob		7700	4/30	0	0.0	10.8	8.8*
LITTLE WOOD RIVER							
#Bear Canyon		7920	4/26	37	13.5	17.8	18.9*
Garfield Ranger Station		6560	4/26	0	0.0	0.0	2.6*
Muldoon		6300	4/26	0	0.0	0.0	0.6*
Swede Peak		7640	4/26	30	11.2	19.6	16.7*

*(b)1963-77, 15 year period. #Not located directly on this drainage. * Estimated 1963-77 15 year average. (1) Aerial observation Water content estimated (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent*

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average b/
BIG WOOD RIVER						
#Couch Summit	6850	4/28	18	7.3	16.5	14.9*
Dollarhide Summit	8400	4/26	56	19.7	--	24.3*
Galena	7300	4/27	22	8.8	18.6	15.9
Galena Summit	8780	4/27	51	18.0	30.7	26.9
Graham Ranch	6280	4/27	15	5.6	7.9	9.2*
Hyndman	7440	4/26	21	8.3	--	--
#Lost-Wood Divide	7900	4/26	42	15.6	24.8	24.8*
Mascot Mine	7760	4/26	31	10.6	17.1	15.5*
Mount Baldy	9000	4/30	44	14.7	30.5	23.6*
Soldier Ranger Station	6100	4/28	0	0.0	0.0	1.1*
#Vienna Mine	8950	4/26	76	30.1	45.0	39.9*
BOISE RIVER						
Atlanta Summit	7500	4/30	62	25.0	40.3	36.6
Bad Bear	5500	4/30	0	0.0	4.0	6.8
#Bogus Basin	6340	5/2	41	17.5	24.3	24.0*
Bogus Basin Road	5520	5/2	0	0.0	0.0	0.4*
Couch Summit	6850	4/28	18	7.3	16.5	14.9*
#Dollarhide Summit	8400	4/26	56	19.7	--	24.3*
Graham Guard Station	5690	5/1	0	0.0	8.5	--
Jackson Peak	7070	4/30	54	21.8	35.0	26.8*
Moores Creek Summit	6100	4/30	55	22.5	35.8	32.6
#Soldier Ranger Station	6100	4/28	0	0.0	0.0	1.1*
Trinity Mountain	7780	4/30	67	29.7	50.4	44.1*
#Vienna Mine	8950	4/26	76	30.1	45.0	39.9*
PAYETTE						
Banner Summit	7040	4/30	54	21.2	--	--
#Big Creek Summit	6600	4/28	73	30.9	42.8	37.8
Bogus Basin	6340	5/2	41	17.5	24.3	24.0*
#Brundage Mountain	7560	4/27	97	40.0	55.0	52.4*
Cozy Cove	5400	4/30	3	1.2	5.2	10.7*
Crawford Ranger Station	4800	4/28	0	0.0	0.0	0.4
Deadwood Airstrip	5440	4/30	6	2.6	3.8	8.6*
Deadwood Summit	7000	4/30	70	31.0	48.9	48.2*
#Jackson Peak	7070	4/30	54	21.8	35.0	26.8*
Lake Fork	6000	4/28	30	12.0	14.7	14.1*
Rock Flat Summit	5340	4/27	34	13.8	18.7	17.9
Secesh Summit	6520	4/28	59	27.5	37.4	36.9*
Squaw Meadow	5900	4/28	57	27.2	35.0	36.1*
WEISER RIVER						
Boulder Creek	5500	4/30	27	11.6	12.2	16.8

*(b) 1963-77, 15 year period. # Not located directly on this drainage. * Estimated 1963-77 15 year average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME		Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average 1/
MIDDLE SNAKE RIVER BASIN - SOUTHSIDE							
RAFT RIVER							
Howell Canyon		7980	4/28	35	15.7	25.8	23.7*
GOOSE CREEK							
Bostetter Ranger Station		7500	4/30	39	16.9	--	12.3*
SALMON FALLS CREEK							
#Bear Creek	Nev.	7800	4/26	58	23.1	27.7	21.2*
Cedar Creek (A)		7000	4/27	9	3.7	--	4.3*
Deadline		6900	4/27	51	24.1	15.4	21.7*
Goat Creek (A)	Nev.	8800	4/27	46	17.5	22.6	20.8
#Hummingbird Springs	Nev.	8940	4/27	60	23.0	--	27.7
Magic Mountain		6700	4/27	45	20.9	15.9	18.8*
#Pole Creek R. S.	Nev.	8330	4/27	54	21.4	21.0	25.8
Wilson Creek (A)		7500	4/27	18	7.4	--	8.4*
BRUNEAU RIVER							
Bear Creek	Nev.	7800	4/26	58	23.1	27.7	21.2*
Hummingbird Springs	Nev.	8940	4/27	60	23.0	--	27.7
Pole Creek R. S.	Nev.	8330	4/27	54	21.4	21.0	25.8*
#Seventy-six Creek	Nev.	7100	4/26	26	11.3	9.1	4.7*
OWYHEE RIVER							
#Bear Creek	Nev.	7800	4/26	58	23.1	27.7	21.2*
#Seventy-six Creek	Nev.	7100	4/26	26	11.3	9.1	4.7*
Silver City		6400	4/30	26	12.9	8.3	11.3*
South Mountain		6340	4/30	25	11.6	8.8	7.1*
UPPER SNAKE RIVER BASIN							
HENRYS FORK RIVER							
Big Springs		6400	4/30	29	12.6	20.6	17.7
Black Canyon		7850	4/30	79	36.8	--	--
Black Moose		8130	4/30	80	37.2	--	44.5*
Grassy Lake	Wyo.	7230	4/30	78	39.6	41.6	36.4
Island Park		6290	4/30	22	9.8	12.5	11.4
Latham Springs		7650	4/30	66	32.2	--	37.9*
Lucky Dog		6900	4/30	42	19.0	--	26.4*
Sawtell Mountain		8720	4/30	78	35.4	46.2	37.1*
Targhee Pass		7000	5/1	32	12.8	17.8	16.2*
Valley View		6740	5/1	29	13.0	11.6	14.5
White Elephant		7700	4/30	50	22.8	33.2	--

(b)1963-77, 15 year period. #Not located directly on this drainage. 1/ Estimated 1963-77 15 year average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME		Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average b/
TETON RIVER							
Darby Canyon	Wyo.	8250	4/27	65	26.0	25.6	25.5*
Freds Mountain	Wyo.	8150	4/27	62	24.7	30.1	21.1*
Garns Mountain		8300	4/27	104	46.8	43.7	31.1*
Indian Meadows	Wyo.	8240	4/27	88	35.8	42.7	39.9*
Jackpine Creek	Wyo.	7350	4/27	54	21.8	21.4	24.1*
McRenolds Reservoir		6800	4/27	49	19.9	17.4	19.8*
Miles Creek	Wyo.	7300	4/27	26	10.4	4.6	11.4*
Phillips Bench	Wyo.	8200	4/30	79	33.2	41.4	31.5*
Pine Creek Pass		6750	4/27	35	15.2	9.7	14.8
State Line		6650	4/27	34	15.2	0.0	10.7
Teton Pass W.S.	Wyo.	8400	4/30	71	31.7	--	28.9*
WILLOW CREEK							
Aspen Grove		6500	4/27	29	10.5	6.2	--
Birch Creek		6800	4/27	18	6.6	0.0	--
Blue Ridge		6800	4/27	21	9.6	8.5	--
Bone		6200	4/27	0	0.0	0.0	--
Brockman Station		6430	4/27	14	5.8	0.0	--
Hell Creek		7100	4/27	23	9.8	4.7	--
Mud Creek		7150	4/27	19	8.4	11.3	--
Sheep Mountain		6570	4/27	16	7.2	0.0	--
Tex Creek		6650	4/27	21	7.4	0.0	--
BLACKFOOT RIVER							
Slug Creek Divide		7230	4/30	22	10.5	13.8	17.0*
GREAT BASIN							
MONTPELIER CREEK							
Giveout		6840	5/1	19	7.4	10.6	6.9*
Little Beaver		6970	5/1	14	5.8	13.4	11.4*
Lower Home Canyon		7640	4/30	21	9.0	13.4	11.1*
Montpelier Creek		6570	5/1	0	0.0	0.0	1.2*
Upper Home Canyon		8560	4/30	46	20.4	32.2	24.5*
Whiskey Flat		6960	5/1	0	0.0	3.4	4.5*
CUB RIVER							
Cub River Ranger Station		5400	4/25	0	0.0	0.0	0.0
#Franklin Basin		8000	4/25	56	25.0	33.5	--
Willow Flat		6100	4/25	22	10.2	4.2	5.5*
Emigrant Summit		7380	4/30	43	19.1	30.4	24.9*

*(b)1963–77, 15 year period. #Not located directly on this drainage. * Estimated 1963–77 15 year Average. (A) Aerial observation Water content estimated (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent*

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Canservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snaw Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U.S. Army Engineers

U.S. Department of Agriculture
Forest Service
Agricultural Research Service
Statistical Reporting Service

U.S. Department of Commerce
NOAA, National Weather Service

U.S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Pawer and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Waod Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
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304 N. 8TH ST.
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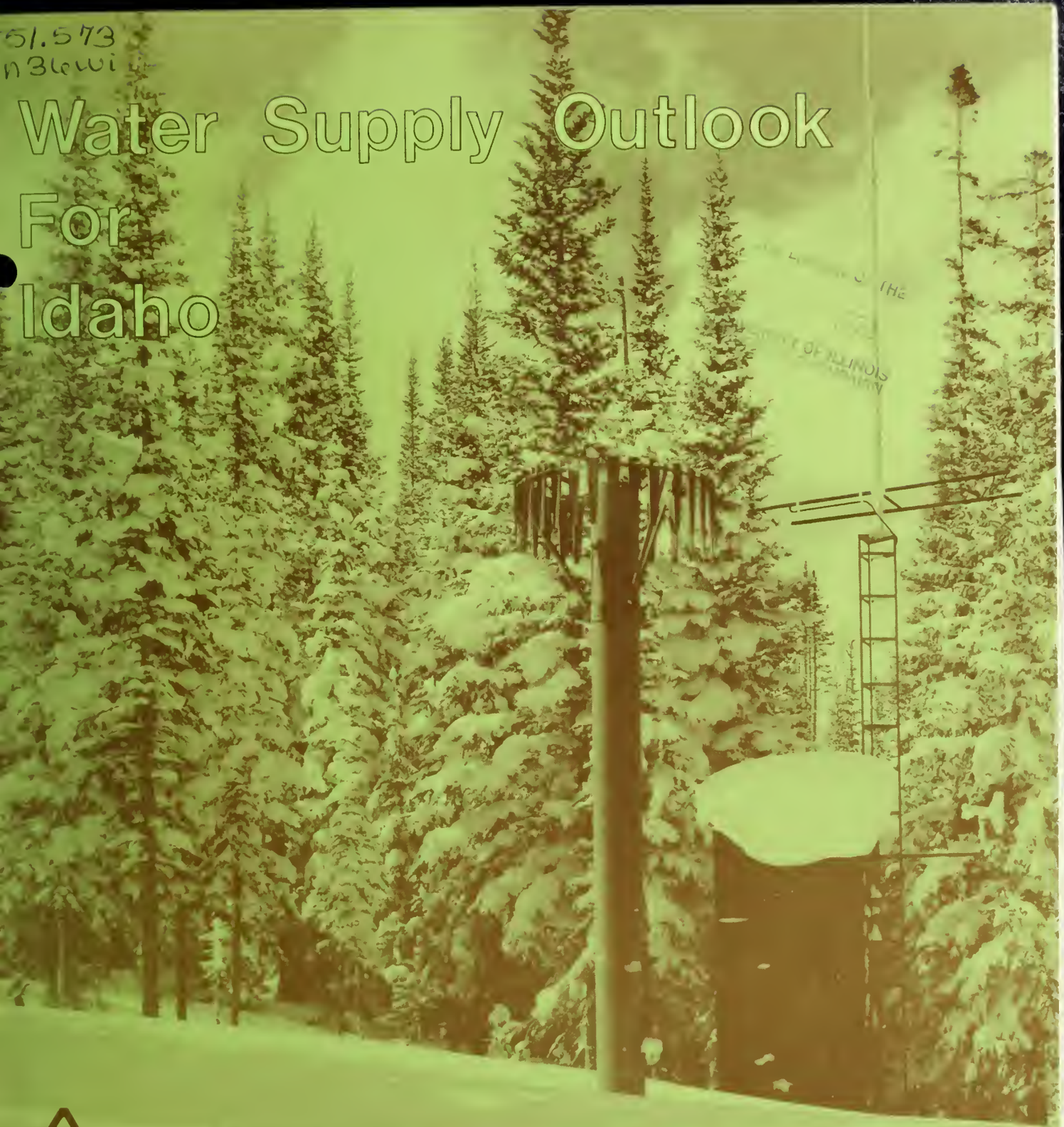
Water Supply Outlook For Idaho



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
JUNE 1, 1979

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Mast of the usable water in western states ariginates as mauntain snowfall. This snawfall accumulates during the winter and spring, several months befare the snow melts and appears as streamflow. Since the runaff from precipitatian as snow is delayed, estimates af snawmelt runoff can be made well in advance of its occurrence. Streamflow farecasts published in this repart are based principally an measurement of the water equivalent of the mauntain snawpack.

Forecasts become mare accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factars during the remainder af the snow accumulatian and melt season will interact with a resultant average effect an runoff. Early seasan farecasts are therefare subject to a greater change than those made on later dates.

The snaw course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked lacatians in mauntain areas. A total af about ten samples are taken at each lacatian. The average af these are reparted as snow depth and water equivalent. These measurements are repeated in the same locatian near the same dates each year.

Snaw surveys are made manthly ar semi-manthly fram January 1 through June 1 in most states. There are abaut 1900 snaw courses in Western United States and in the Columbia Basin in British Calumbia. Netwarks of automatic snaw water equivalent and related data sensing devices, alang with radio telemetry are expanding and will provide a cantinuous record af snaw water and ather parameters at key lacations.

Detailed data on snaw course and soil moisture measurements are presented in state and local reports. Other data on reservair storage, summaries of precipitation, current streamflaw, and soil moisture conditions at valley elevations are alsa included. The report for Western United States presents a broad picture af water supply autlook conditions, including selected streamflaw forecasts, summary af snaw accumulatian ta date, and starage in larger reservairs.

Snaw survey and soil moisture data far the period af record are published by the Sail Canservation Service by states abaut every five years. Data far the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: VIEW OF A SNOTEL DATA SITE IN THE SNOWY RANGE IN WYOMING. TALL CYLINDRICAL DEVICE IS A PRECIPITATION GAGE. SNOW PILLOWS ON THE GROUND NOT VISIBLE DUE TO SNOW COVER. SHELTER HOUSE, ANTENNA TOWER, ANTENNA, AND TEMPERATURE UNIT ARE VISIBLE BEHIND THE PRECIPITATION GAGE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Canservation Service publishes reparts following the principal snaw survey dates from January 1 through June 1 in caaperatian with state water administrators, agricultural experiment stations and others. Capies af the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Partland, Oregan 97209.

Capies af state and local reports may alsa be abtained from state offices af the Soil Conservation Service in the fallowing states:

STATE	ADDRESS
Alaska	Roam 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorada (N. Mex.)	P. O. Box 17107, Denver, Colorada 80217
Idaho	Room 345, 304 N. 8th. St., Baise, Idaho 83702
Mantana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R.M. DAVIS

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

C. STEPHEN ALLRED

DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

JACK A. WILSON, Snow Survey Supervisor
GERALD A. BEARD, Asst. Snow Survey Supervisor
KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL SUMMARY FOR JUNE 1, 1979

Water supplies for Idaho are forecast to be generally adequate for the 1979 irrigation season, however, good water management practices will be necessary in many locations to stretch the supply as much as possible.

Precipitation for the month of May was generally below average and temperatures were near normal. Warm spells followed by cold periods resulted in an orderly snow melt however the below normal snow pack in most areas did not produce as much runoff as would have occurred with an accelerated snow melt.

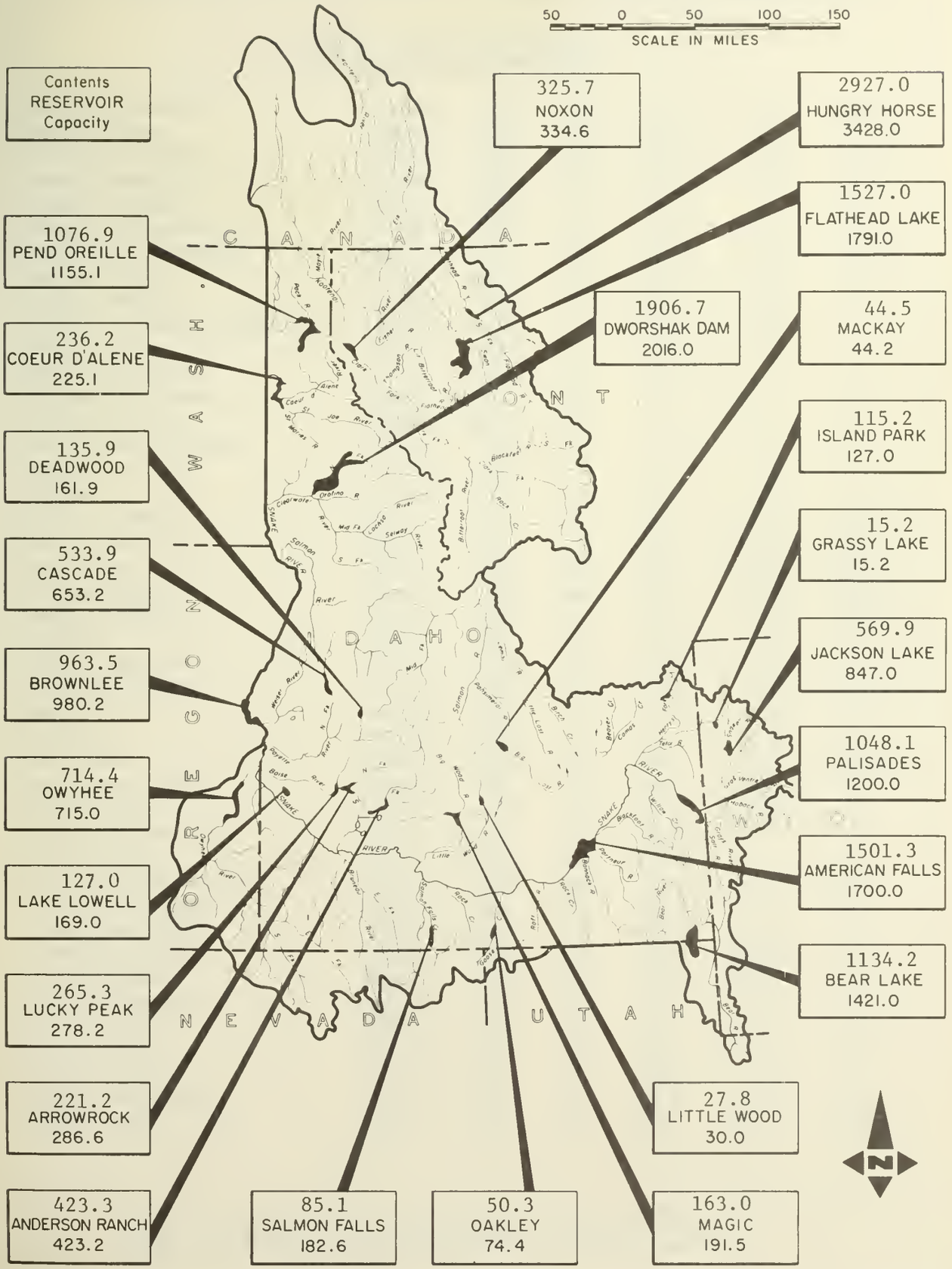
Due to early irrigation demands and below normal flows some reservoirs may not fill as anticipated in earlier reports.

This report carries the June 1 and supplemental measurements for 1979 and corrections of previously published 1979 data.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

JUNE 1, 1979



SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average /.

JUNE 1, 1979 MEASUREMENTS

Atlanta Summit		7500	5/30	19	8.0	30.7	20.5*
Bear Canyon		7920	6/1	0	0.0	6.2	4.1*
Big Creek Summit		6600	5/30	26	13.0	29.6	18.6
Bogus Basin		6340	5/30	0	0.0	0.0	3.5*
Breezy Saddle		5000	5/30	0	0.0	--	--
Brundage Mountain		7560	5/29	45	21.8	46.8	36.9*
Coolwater Mountain		6200	5/30	30	12.8	21.0	16.4*
Copper Basin		7650	6/1	0	0.0	0.0	--
Crater Meadows		6100	5/30	40	22.0	29.6	32.0*
Crawford Ranger Station		4800	5/30	0	0.0	0.0	--
Darby Canyon		8250	6/2	0	0.0	16.6	--
Deadwood Summit		6750	6/3	17	9.2	--	--
Dollarhide Summit		8400	6/1	12	5.1	--	--
Fishpole Lake		9350	6/1	0	0.0	32.2	--
Forty-nine Meadows		4840	5/30	0	0.0	--	--
Freds Mountain		8000	6/2	0	0.0	15.0	--
Galena		7300	5/31	0	0.0	--	2.6*
Galena Summit		8780	5/31	0	0.0	26.2	13.9*
Garns Mountain		8300	6/2	48	23.9	37.7	--
Goat Lake		6500	5/30	60	25.8	40.8	36.8*
Granite Peak		6000	5/30	46	20.6	24.8	31.5*
Hemlock Butte		5500	5/30	46	21.2	24.4	30.9*
Hyndman		7440	6/1	0	0.0	--	--
Indian Meadows		8240	6/2	37	18.6	36.6	--
Jackpine Creek		7350	6/2	0	0.0	0.0	24.1*
Lake Fork		6000	5/27	0	0.0	0.0	--
Lookout		5120	5/30	7	3.7	14.8	15.0*
Lost Lake		6080	5/30	64	28.2	35.8	46.4*
Lost Wood Divide		7900	6/1	0	0.0	11.2	--
Mascot Mine		7760	6/1	0	0.0	0.0	--
McRenolds Reservoir		6800	6/2	0	0.0	--	--
Miles Creek	Wyo.	7300	6/2	0	0.0	--	--
Moores Creek Summit		6100	5/30	10	4.0	17.5	12.5
Pine Creek Pass		6750	6/2	0	0.0	--	--
Schweitzer Bowl		4500	5/25	0	0.0	0.0	--
Schweitzer Ridge		6200	5/25	32	16.7	39.7	--
Secesh Summit		6520	5/31	7	3.5	20.1	--
Shanghai Summit		4600	5/30	0	0.0	--	--
Squaw Meadow		5900	5/31	4	1.7	14.8	15.3*
State Line		6650	6/2	0	0.0	--	--
Stickney Mill		7450	6/1	0	0.0	0.0	--
Trinity Mountain		7780	5/30	23	10.6	36.5	25.7*
Vienna Mine		8950	6/1	34	16.0	37.6	29.4*

*(b)1963-77, 15 year period. #Not located directly on this drainage. *Estimated 1963-77 15 year average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

USDA-SCS-PORTLAND, OR. 1978 M7-22023P

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average 1/

SUPPLEMENTAL MEASUREMENTS

DECEMBER 1, 1978

Kruze Meadows	4800	11/30	13	2.4	--	--
Kruze Meadows	4800	12/5	25	4.7	--	--
Soldier Meadows	4640	11/30	15	2.5	--	--
Soldier Meadows	4640	12/5	27	4.5	--	--
Webb Creek	4720	11/30	14	2.4	--	--
Webb Creek	4720	12/5	25	4.9	--	--
Willow Flat	6100	11/30	19	3.4	3.9	--

DECEMBER 15, 1978

Kruze Meadows	4800	12/19	28	6.0	--	--
Soldier Meadows	4640	12/19	28	6.1	--	--
Webb Creek	4720	12/19	27	6.2	--	--

JANUARY 1, 1979

Bear Creek (A) Nev.	7800	1/4	24	7.0	10.2	7.8*
Cedar Creek (A)	7000	1/4	21	5.9	4.0	4.4*
Hummingbird Springs (A) Nev.	8940	1/4	36	9.5	9.5	9.9*
Kruze Meadows	4800	12/29	29	7.0	--	--
Pierce Ranger Station	3170	1/2	27	6.8	6.4	4.2
Soldier Meadows	4640	12/29	30	7.0	--	--
Webb Creek	4720	12/29	27	6.7	--	--
Wilson Creek	7500	1/4	24	5.3	3.5	4.6*

JANUARY 15, 1979

Atlanta Summit	7500	1/17	48	11.6	25.4	--
Bad Bear	5500	1/15	35	7.2	10.8	--
Banner Summit	7040	1/17	46	10.4	--	--
Bogus Basin	6340	1/18	38	9.2	--	--
Bogus Basin Road	5360	1/18	27	7.0	--	--
Graham Guard Station	5690	1/17	31	7.0	15.0	--
Jackson Peak	7070	1/17	45	10.8	24.2	--
Moores Creek	6100	1/15	51	12.3	23.7	--
Mount Baldy	9000	1/15	30	5.0	13.6	--
Pierce Ranger Station	3170	1/15	43	8.9	6.8	--
Trinity Mountain	7780	1/17	56	13.4	33.1	--
Vienna Mine	8960	1/17	55	13.2	28.0	--

FEBRUARY 15, 1979

Atlanta Summit	7500	2/16	70	18.2	37.5	--
Bad Bear	5500	2/14	36	9.5	15.9	--

*(b) 1963-77, 15 year period. # Not located directly on this drainage * Estimated 1963-77 15 year Average. (1) Aerial observation Water content estimated (SP) Pressure Pillow snow-water equivalent (R) Radioactive Gage snow-water equivalent*

USDA-SCS-PORTLAND, OR. 1978 M7-22023P

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average 1/
FEBRUARY 15, 1979 (Cont'd)						
Bogus Basin	6340	2/14	48	13.7	22.8	--
Bogus Basin Road	5520	2/14	25	7.6	10.6	--
Crooked Fork	3600	2/16	40	12.2	--	--
Fish Lake Airstrip	5000	2/18	105	28.7	--	--
Graham Guard Station	5690	2/16	37	10.3	21.2	--
Hemlock Butte	5500	2/19	122	32.8	--	--
Lolo Pass	5240	2/16	86	28.8	--	--
Moores Creek Summit	6100	2/14	64	17.8	34.2	--
Mount Baldy	9000	2/15	44	8.3	23.2	--
Pierce Ranger Station	3170	2/15	38	11.2	9.6	--
Savage Pass	6170	2/20	81	25.3	--	--
Shanghai Summit	4600	2/18	80	21.5	--	--
Trinity Mountain	7780	2/16	78	21.8	44.9	--
Vienna Mine	8960	2/16	72	19.9	37.7	--
MARCH 15, 1979						
Above Burke	4100	3/14	54	21.6	20.7	--
Atlanta Summit	7500	3/14	66	21.6	39.5	--
Bad Bear	5500	3/14	36	11.6	16.8	--
Bogus Basin	6340	3/15	53	18.5	26.2	--
Bogus Basin Road	5520	3/15	13	4.6	7.1	--
Breezy Saddle	5000	3/14	77	26.1	--	--
Crooked Fork	3600	3/14	33	11.4	14.4	--
Fish Lake Airstrip	5000	3/14	87	31.5	36.5	--
Forty-nine Meadows	4840	3/14	69	23.7	--	--
Fourth of July Summit	3200	3/13	32	11.6	8.8	--
Galena	7300	3/15	35	10.7	21.2	--
Galena Summit	8795	3/15	42	12.6	25.9	--
Graham Guard Station	5690	3/14	33	11.1	21.7	--
Hemlock Butte	5500	3/14	105	37.1	41.9	--
Jackson Peak	7070	3/14	63	20.5	35.2	--
Lolo Pass	5240	3/14	77	31.1	32.5	--
Lookout	5120	3/14	75	28.8	34.2	--
Lost Lake	6000	3/14	115	38.2	45.9	--
Moores Creek Summit	6100	3/14	64	22.7	36.4	--
Mount Baldy	9000	3/15	42	12.0	26.6	--
Pierce Ranger Station	3170	3/13	32	11.6	10.0	--
Prairie	4900	3/14	16	5.4	4.5	--
Savage Pass	6170	3/14	68	23.4	29.0	--
Shanghai Summit	4600	3/14	66	23.0	23.2	--
Sherwin	3200	3/15	42	15.7	8.7	--
Trinity Mountain	7780	3/14	72	26.5	48.0	--
Vienna Mine	8960	3/14	67	23.5	39.8	--

(b)1963-77. 15 year period. #Not located directly on this drainage. 1/ Estimated 1963-77 15 year Average. (1) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent (R) Radioactive Gage snow-water equivalent.

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SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average 1/
APRIL 15, 1979						
Atlanta Summit	7500	4/17	70	25.3	38.7	--
Bad Bear	5500	4/16	18	7.3	8.1	--
Bogus Basin	6340	4/13	61	23.5	--	--
Bogus Basin Road	5520	4/13	0	0.0	--	--
Galena	7300	4/17	32	11.6	19.6	--
Galena Summit	8795	4/17	56	17.3	28.9	--
Graham Guard Station	5690	4/17	21	7.4	13.9	--
Jackson Peak	7070	4/17	64	22.6	35.6	--
Lookout	5120	4/13	81	35.3	30.3	--
Moores Creek Summit	6100	4/16	63	24.0	35.9	--
Mount Baldy	9000	4/13	53	15.1	27.2	--
Pierce Ranger Station	3170	4/16	17	6.6	0.6	--
Prairie	4900	4/15	0	0.0	0.0	--
Trinity Mountain	7780	4/17	78	30.2	48.2	--
MAY 15, 1979						
Atlanta Summit	7500	5/14	55	23.8	35.1	--
Bogus Basin	6340	5/15	30	14.0	14.0	--
Lookout	5120	5/14	39	20.0	22.5	--
Moores Creek Summit	6100	5/15	44	19.6	26.7	--
Trinity Mountain	7780	5/13	62	28.2	44.5	--
Vienna Mine	8960	5/14	65	29.4	44.3	--
CORRECTIONS TO PREVIOUSLY PUBLISHED 1979 DATA						
JANUARY 1, 1979						
Aspen Grove	6600	1/6	28	5.0	4.2	--
Henry Creek	5650	1/6	14	2.2	--	--
APRIL 1, 1979						
Cedar Creek (A)	7000	4/8	30	9.8	7.7	10.0
Wilson Creek (A)	7500	4/8	36	12.0	12.7	11.9

(b)1963-77, 15 year period. #Not located directly on this drainage. 1/ Estimated 1963-77 15 year average. (A) Aerial observation Water content estimated (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent

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Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

Stotes:

Idoho Deportment of Water Resources
Stote of Idoho Deportment of Fish and Game
University of Idoho
Idaho State University
Montono Agricultural Experiment Station
Montono State Water Conservation Board
Montona Cooperotive Snow Surveys
Nevado Cooperotive Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperotive Snow Surveys
Oregon State Engineer and Corps of
Stote Watermosters
Utoh Cooperotive Snow Surveys
Wyoming Coaperotive Snow Surveys

Federol:

U.S. Army Engineers

U.S. Department of Agriculture
Forest Service
Agricultural Research Service
Stotistical Reporting Service

U.S. Deportment of Commerce
NOAA, National Weother Service

U.S. Deportment of the Interior
Bonneville Power Administration
Bureou of Reclamation
Fish ond Wildlife Service
Woter Resources Division, Geological Survey
Notionol Pork Service
Bureau of Lond Monogement

PUBLIC UTILITIES

The Montona Power Company
Washington Water Power Compony
Idoho Power Company
Utoh Power and Light Compony

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigotion District
Bloine Soil Conservotian District
Boise Project Boord of Control
Idoho Woter District #01
Little Wood River Irrigation District
Monn Creek Irrigotion District
Solmon Falls Creek Irrigation Compony
Twin Falls Soil Conservation District
Big Wood Irrigotion Compony
Owyhee Project - North & South Baard of Contral
Valley Soil Conservation District
Portneuf Soil ond Water Conservotion District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

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